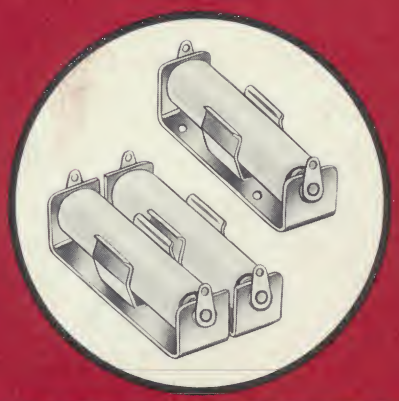
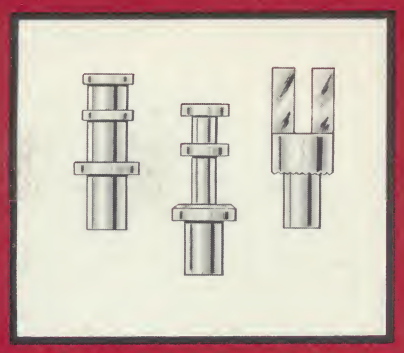
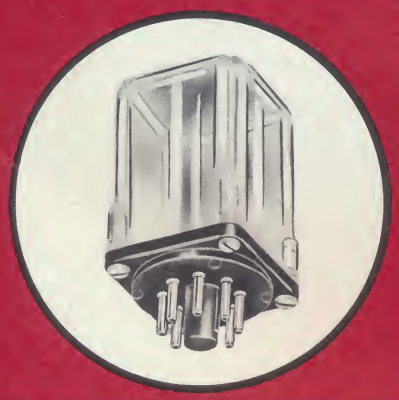


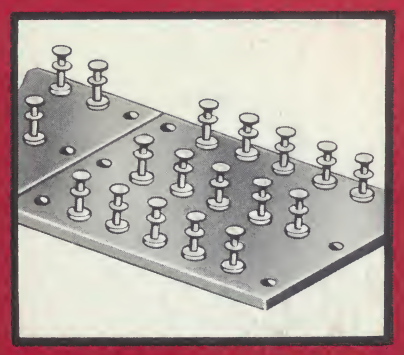
BATTERY HOLDERS



TERMINALS



PLUG-IN HOUSINGS



TERMINAL BOARDS

KEYSTONE

DESIGNERS MANUFACTURERS

STANDARDIZED

ELECTRONIC COMPONENTS

KEYSTONE ELECTRONICS CORP.

49 BLEECKER ST., NEW YORK N.Y. 10012

(212) 475-4600

CAT. NO. 678

"Standardize" with

KEYSTONE

★ This catalog was designed for cost-minded purchasing agents and engineers who are looking for service, quality and reliability through **"STANDARDIZATION."**

KEYSTONE ELECTRONICS CORP. has been serving the nation's leading Manufacturers and the Armed Forces for the past two decades. Our reputation is based on know-how and cost saving principles.

To avoid tooling and set-up charges KEYSTONE has developed a wide line of **"STANDARDIZED"** components which are available from stock, and economical.

Standard products listed in this catalog that cannot be used as shown, can be modified to suit your needs, or custom-fabricated to your specifications.

We invite your inquiries regarding modifications or custom-fabrication.

STANDARD STOCK: All orders are handled promptly.

QUALITY CONTROL: Each item from standard to special is carefully inspected before, during and after fabrication.

CUSTOM-FABRICATION: We are equipped to produce economically short and long runs of special assemblies made to your specifications.

PILOT RUNS: Our many years of experience go into the handling of short production runs.

DESIGN: A staff of designers and engineers of unmatched skill and experience offer their invaluable assistance in handling your orders.

TOOLING: Standardized tooling is used wherever possible to reduce tooling costs, permit speed in manufacturing of quality parts, and at the lowest prices.

MATERIALS: The highest grades of insulating materials, metals, marking, coating and finishes assure you that your fabricated parts will be of uniform quality. Materials meet Military Specifications.

QUOTATIONS: Regardless of quantity, all inquiries are carefully analyzed and promptly quoted. "Rush" requests are given special consideration.

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All products unconditionally guaranteed against defects in material and workmanship.

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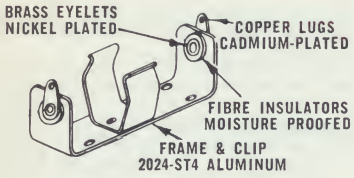
We reserve the right to change specifications on any and all items shown in this catalog or any supplements without prior notice providing it will improve the quality, performance or appearance without changing the function of the item.

KEYSTONE ALUMINUM BATTERY HOLDERS



A standard line of battery holders available for immediate shipment from stock. Low cost, lightweight and sturdily constructed of quality materials. Good electrical contact, low leakage current and snap-fit clips are the outstanding features.

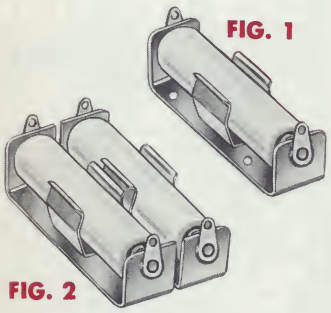


FIG. 1

FIG. 2

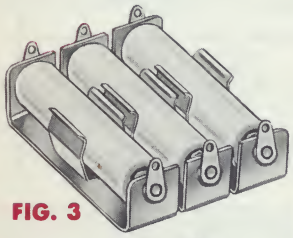


FIG. 3

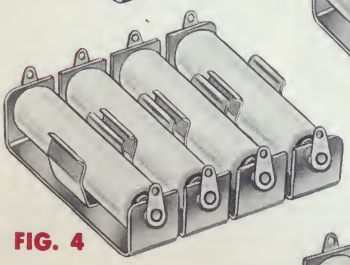


FIG. 4

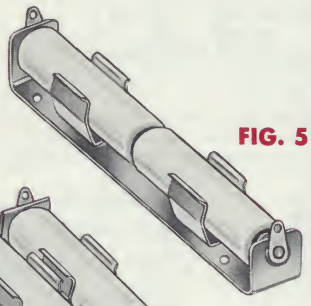


FIG. 5

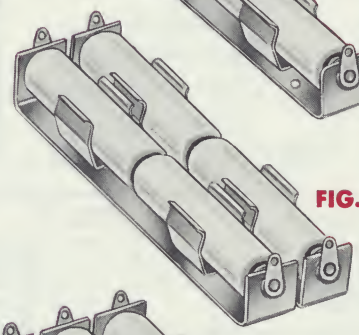


FIG. 7

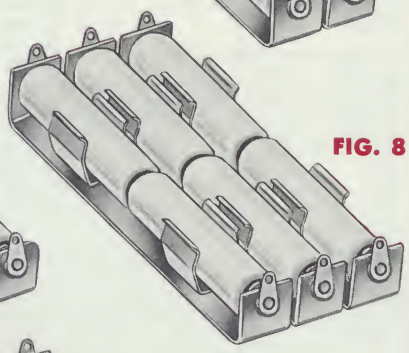


FIG. 8

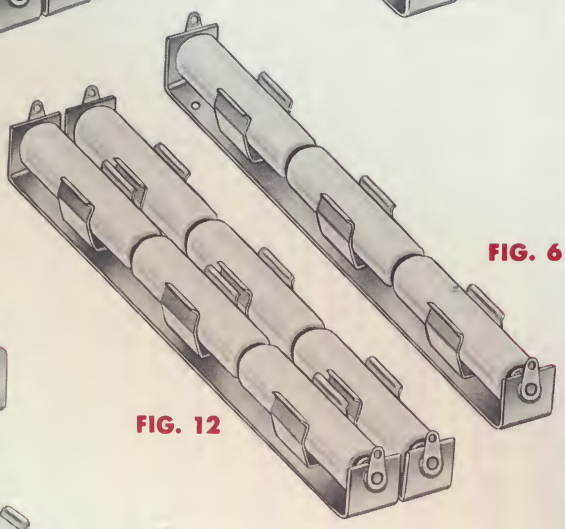


FIG. 6

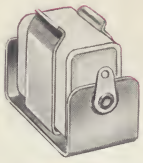


FIG. 9

FIG. 12

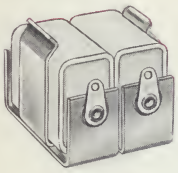


FIG. 10

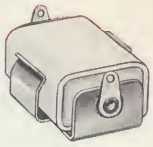


FIG. 11

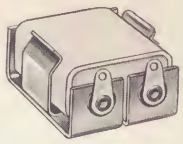


FIG. 14

MODIFICATIONS: We welcome the opportunity to quote on variations of standard items. Use our engineering service for your special custom-built holders.

DIMENSIONAL DRAWINGS ON THE FOLLOWING PAGE

KEY-STONE CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	ALL BATTERIES LISTED WITHIN BOXES ARE IN THE SAME SIZE GROUP BATTERY CROSS REFERENCE			
			BURGESS	EVEREADY	RCA	NEDA
MINIATURE CELL HOLDERS						
137	1	1	7	912	VS074	24
138	2	2				
169	3	3				
170	4	4				
PENCELL HOLDERS						
139	1	1	CD6	E9, E12	VS034A	15
140	2	2	9R, Z	E91	VS144	15A
171	3	3	HG9	E133	VS149	1103
182	4	4	HG12R	333	VS313A	1107
189	2	5	H133	E502	VS334	
191	3	6	HG502R	515		
192	4	7	920	915, 1015		
193	6	8	930	N46		
"C" CELL HOLDERS						
173	1	1	1	226	VS035A	14
174	2	2	P6	E233	VS300	1300
187	3	3	120	635	VS335	1600
185	2	5	130	935	VS400	
195	3	6	H233	1035		
196	4	7	302599	E93		
197	6	8				
"D" CELL HOLDERS						
175	1	1	2	E42	VS036A	13
176	2	2	2R	N56	VS036	
190	3	3	CD7	E95	VS336	
186	2	5	210	D99		
199	3	6	230	A100		
200	4	7		950		
201	6	8		1050		
205	6	12				
1 1/2 VOLT CELL HOLDERS						
154	1	1	N	E340	VS073	910
155	2	2		904		
156	3	3				
160	1	1	21R	964	VS236	20
179	1	1		E94		927
4 1/2 VOLT CELL HOLDERS						
139	1	1		333	VS1149	1306
9 VOLT CELL HOLDERS						
139A	1	1		206	VS327	1611
203P	1	14	2U6	216	VS323	1604
173P	1	1	P6M	226	VS300A	1600
15 VOLT CELL HOLDERS						
163	1	11	K10	417		224
161	1	11	U10	411	VS083	208
166	1	9				
167	2	10				
225	1	1	Y10	504		220
226	2	2				
22 1/2 VOLT CELL HOLDERS						
164	1	11	K15			225
168	1	11		420		
177	1	9	U15	412	VS084	215
178	2	10				
139A	1	1	Y15	505		221
140A	2	2				
171A	3	3				
182A	4	4				
30 VOLT CELL HOLDERS						
157	1	14	Y20	506		223
165	1	11	K20	430		226
183	1	9	U20	413	VS085	210
184	2	10				
134	1	1	Y20S	507		222

KEYSTONE ALUMINUM BATTERY HOLDERS

SEE NEXT PAGE FOR NUMERICAL LISTING OF MERCURY CELLS

MATERIAL SPECIFICATIONS INSULATING WASHERS—RESIN IMPREGNATED FIBRE; TERMINAL LUG—COPPER, CADMIUM PLATED PER QQ-P-416; FRAME AND CLIPS—ALUMINUM PER QQ-A-362; CONTACT EYELETS—BRASS N.P.

FIG. 1

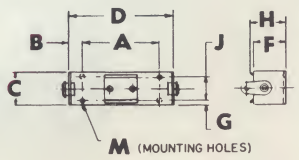


FIG. 2

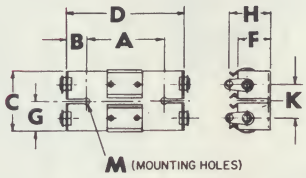


FIG. 3

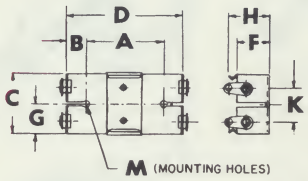


FIG. 4

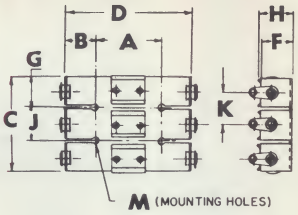


FIG. 5

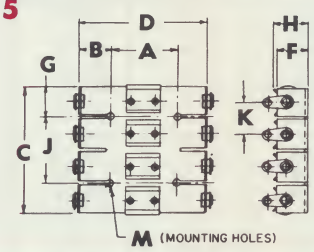


FIG. 6

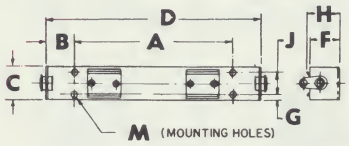


FIG. 7

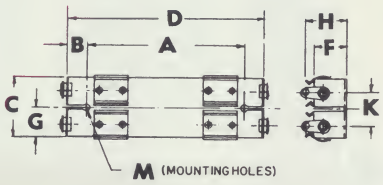


FIG. 8

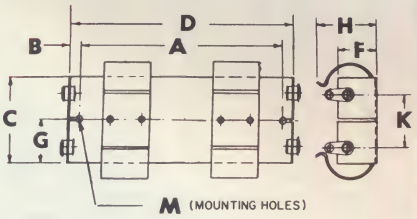


FIG. 9

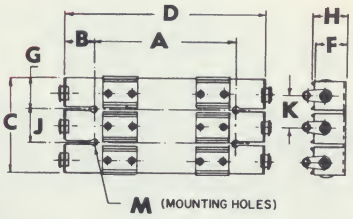
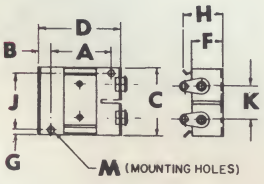


FIG. 10



CAT. NO.	FIG.	±.005 A	±.015 B	±.010 C	±.015 D	±.010 F	±.010 G	±.015 H	±.005 J	±.010 K	MTG. HOLES M ±.003
106	1	1.500	.200	.437	1.906	.525	.093	.468	.250	—	2#34 (.111 Dia)
109	1	1.500	.218	.625	1.937	.609	.109	.625	.406	—	4#30 (.128 Dia)
110	1	1.500	.437	.625	2.374	.625	.109	.625	.406	—	4#30 (.128 Dia)
119	1	1.500	.645	.750	2.790	.790	.109	.953	.531	—	2#30 (.128 Dia)
120	6	2.937	.396	1.000	3.730	.910	.125	1.218	.750	—	2#34 (.111 Dia)
121	1	1.750	.500	1.000	2.750	.968	.125	1.218	.750	—	2#28 (.140 Dia)
122	1	1.000	.359	.625	1.718	.593	.109	.625	.406	—	2#30 (.128 Dia)
124	1	.906	.203	.437	1.343	.484	.093	.468	.250	—	2#34 (.111 Dia)
132	1	1.125	.171	.625	1.468	.640	.093	.625	.437	—	4#34 (.111 Dia)
134	1	1.812	.484	.625	2.781	.609	.093	.625	.437	—	4#34 (.111 Dia)
135	6	2.500	.464	.625	3.430	.610	.093	.625	.437	—	4#30 (.128 Dia)
137	1	1.500	.218	.437	1.950	.468	.093	.484	.250	—	2#34 (.111 Dia)
138	2	.875	.531	.812	1.950	.468	.406	.484	—	.437	2#28 (.140 Dia)
139	1	1.500	.312	.625	2.140	.625	.109	.625	.406	—	4#34 (.111 Dia)
140	2	1.218	.461	1.125	2.140	.625	.562	.625	—	.625	2#28 (.140 Dia)
154	1	.906	.242	.437	1.390	.468	.093	.531	.250	—	2#34 (.111 Dia)
155	2	.875	.245	.937	1.390	.484	.468	.531	—	.500	2#34 (.111 Dia)
156	4	.875	.257	1.500	1.390	.475	.468	.531	.562	.531	4#34 (.111 Dia)
157	10	1.125	.218	1.250	1.562	.578	.109	.718	1.032	.593	2#34 (.111 Dia)
160	1	3.500	.406	1.000	4.312	.960	.141	1.218	.718	—	2#28 (.140 Dia)
163	1	1.125	.312	1.000	1.750	.687	.141	1.218	.718	—	2#28 (.140 Dia)
164	1	1.625	.402	1.000	2.430	.687	.125	1.218	.750	—	2#28 (.140 Dia)
165	1	2.187	.390	1.000	2.968	.687	.141	1.218	.718	—	2#28 (.140 Dia)
166	1	1.000	.312	.750	1.625	.768	.093	1.156	.562	—	4#28 (.140 Dia)
167	3	1.000	.312	1.125	1.625	.750	.562	1.218	—	.593	2#28 (.140 Dia)
168	1	1.500	.377	.750	2.275	.718	.125	.937	.500	—	4#28 (.140 Dia)
169	4	.875	.531	1.250	1.950	.468	.406	.484	.437	.437	4#28 (.140 Dia)
170	5	.875	.531	1.687	1.950	.468	.406	.484	.875	.437	4#28 (.140 Dia)
171	4	1.218	.461	1.750	2.140	.625	.562	.625	.625	.625	4#28 (.140 Dia)
173	1	1.500	.296	.750	2.093	.781	.156	.953	.437	—	4#28 (.140 Dia)
174	3	1.750	.172	1.625	2.093	.781	.812	1.105	—	1.000	2#28 (.140 Dia)
175	1	1.750	.406	1.000	2.562	.937	.125	1.218	.750	—	4#30 (.128 Dia)
176	3	2.093	.248	2.062	2.578	.937	1.030	1.437	—	1.312	2#28 (.140 Dia)
177	1	1.500	.312	.750	2.125	.781	.156	1.156	.437	—	4#28 (.140 Dia)
178	3	1.218	.453	1.125	2.125	.781	.562	1.218	—	.625	2#28 (.140 Dia)
179	1	.937	.250	1.000	1.425	.930	.125	1.218	.750	—	4#30 (.128 Dia)
182	5	1.218	.461	2.656	2.140	.625	.609	.625	1.437	.718	4#28 (.140 Dia)
183	1	1.750	.445	.750	2.687	.812	.093	1.156	.562	—	4#34 (.111 Dia)
184	3	1.812	.414	1.125	2.640	.812	.562	1.218	—	.625	2#28 (.140 Dia)
185	6	3.187	.419	.750	4.025	.812	.125	.953	.500	—	4#28 (.140 Dia)
186	6	4.125	.370	1.000	4.865	.968	.156	1.218	.687	—	4#30 (.128 Dia)
187	4	1.250	.435	2.625	2.093	.781	.812	.953	.968	1.031	4#28 (.140 Dia)
189	6	3.000	.538	.625	4.075	.625	.093	.625	.437	—	4#30 (.128 Dia)
190	4	1.937	.321	3.375	2.578	.968	1.125	1.218	1.125	1.343	4#28 (.140 Dia)
192	7	3.000	.542	1.187	4.075	.625	.593	.625	—	.687	2#28 (.140 Dia)
193	9	3.125	.484	1.750	4.075	.625	.562	.625	.625	.625	4#28 (.140 Dia)
196	8	3.187	.419	1.625	4.025	.781	.812	1.125	—	1.000	2#28 (.140 Dia)
197	9	3.187	.419	2.625	4.025	.812	.812	1.000	1.000	1.031	4#28 (.140 Dia)
200	8	4.375	.245	2.062	4.865	.968	1.032	1.468	—	1.312	2#28 (.140 Dia)
201	9	4.375	.245	3.375	4.865	.968	1.125	1.218	1.125	1.343	4#28 (.140 Dia)
203	10	1.375	.312	1.125	2.000	.547	.125	.593	.875	.500	4#30 (.128 Dia)
225	1	1.125	.226	.625	1.578	.609	.093	.625	.437	—	4#34 (.111 Dia)
226	2	.875	.351	1.125	1.578	.609	.562	.625	—	.625	2#28 (.140 Dia)

KEYSTONE MERCURY BATTERY HOLDERS

MERCURY BATTERY CROSS REFERENCE

FIG. 1

ALUMINUM

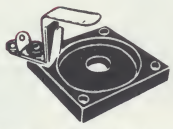
FIG. 5

ALUMINUM

FIG. 9

ALUMINUM

FIG. 13



PHOS. BRONZE SPRING PHENOLIC BASE

FIG. 15

ALL STEEL ONE CONTACT INSULATED

FIG. 16

ALL STEEL ALL CONTACTS INSULATED

FIG. 17

PHOS. BRONZE SPRING PHENOLIC BASE

FIG. 18

PHOS. BRONZE SPRING PHENOLIC BASE

FIG. 19

ALL STEEL ONE CONTACT INSULATED

FIG. 20

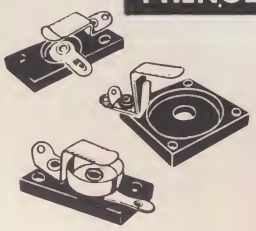
ALL STEEL ALL CONTACTS INSULATED

SEE PAGES 3 AND 5 FOR MATERIAL SPECIFICATIONS AND DIMENSIONAL DRAWINGS

MERCURY BATTERY CROSS REFERENCE			ALUMINUM AND PHENOLIC BASE HOLDERS		ALL STEEL HOLDERS ONE INSULATED CONTACT		ALL STEEL HOLDERS ALL CONTACTS INSULATED	
BURGESS	EVEREADY	MALLORY	CAT. NO.	FIG. NO.	CAT. NO.	FIG. NO.	CAT. NO.	FIG. NO.
Hg-1R	E1	RM1R	101*	13	1101	15	2101	16
Hg-3R	E3	RM3R	103*	13	1103	15	2103	16
Hg-4R	E4	RM4R	104*	13	1104	15	2104	16
Hg-9	E9	ZM9	139	1	1139	19	2139	20
Hg-12R	E12	RM12R	139	1	1139	19	2139	20
Hg-42R	E42	RM42	175	1	1175	19	2175	20
H113R	E113	TR113			1113	15	2113	16
H114R	E114	TR114			1114	15	2114	16
H115R	E115	TR115	132	1	1132	15	2132	16
H126	E126	TR126	139A	1				
H132R	E132	TR132	132	1	1132	15	2132	16
H133	E133	TR133	139	1	1139	19	2139	20
H134R	E134	TR134	134	1	1134	19	2134	20
H135R	E135	TR135	135	5	1135	19	2135	20
H136R	E136	TR136	189	5	1189	19	2189	20
H137R	E137	TR137			1125	19	2125	20
H145	E145	TR145			1145	15	2145	16
H152R	E152	TR152	124**	1				
H153R	E153	TR153	106**	1				
H162R	E162	TR162			1113	15	2113	16
H163	E163	TR163	132	1	1132	15	2132	16
H164	E164	TR164	109	1	1109	19	2109	20
H165	E165	TR165	110	1	1110	19	2110	20
H169	E169	TR169	189	5	1189	19	2189	20
	E175	TR175	124**	1				
		TR176			1132	15	2132	16
H177	E177	TR177			1142	19	2142	20
H233	E233	TR233	173	1	1173	19	2173	20
H234	E234	TR234			1144	19	2144	20
		TR235			1133	19	2133	20
		TR236	185	5	1185	5	2185	5
Hg-400R	E400	RM400	111*	18				
Hg-401	E401	RM401	124**	1				
		RM411	166**	9				
		RM412	177**	9				
		RM413	183**	9				
Hg-450R	E450	RM450	112*	17				
Hg-502R	E502	RM502	139	1	1139	19	2139	20
Hg-601R	E601	RM601			1116	15	2116	20
Hg-625R	E625	RM625	117*	17				
Hg-630	E630	RM630	126*	18				
Hg-640	E640	RM640	118*	13				
Hg-675	E675	RM675	127*	18				
302351-M	E302351	302351	119	1	1119	19	2119	20
302435	E302435	302435	122**	1				
302437	E302437	302437	139	1	1139	19	2139	20
302478-M	E302478	302478	120	5	1120	19	2120	20
		302599	173	1	1173	19	2173	20
302642-M	E302642	302642	121	1	1121	19	2121	20

* PHENOLIC BASE HOLDERS **AVAILABLE ONLY IN ALUMINUM

PHENOLIC BASE HOLDERS



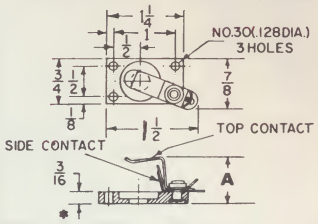
MATERIAL SPECIFICATIONS

*PHENOLIC —Per Mil-P-3115C Type PBE.

PHOSPHOR BRONZE—Per-Mil-B-892, spring temper Grade A

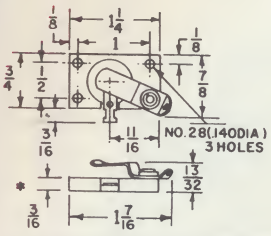
CADMIUM PLATE—Per QQ-P-416

No. 101 A = 3/4"



No. 118 A = 9/16"

No. 126



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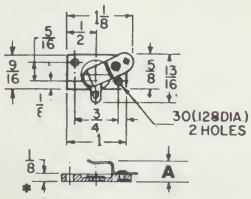
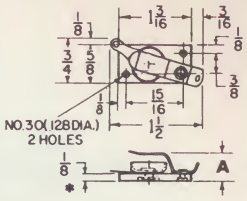


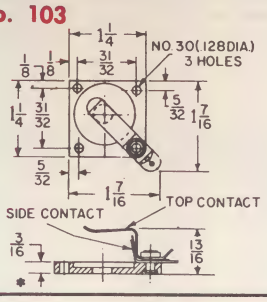
No. 127 A = 1/4"

No. 112 A = 11/16"

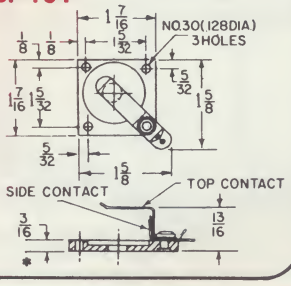


No. 117 A = 15/32"

No. 103



No. 104

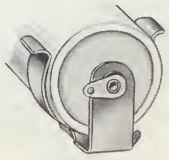


KEYSTONE BATTERY CLIPS AND HOLDERS

SPACE SAVER BATTERY CLIPS

Available with insulated contact or dimple. Positive contact grips battery securely. They will accommodate the "AA"—"C" —"D"—Mercury and NI-CAD batteries.

- CORROSION RESISTANT NICKEL PLATED
- STAINLESS STEEL CONTACTS

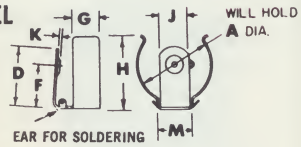


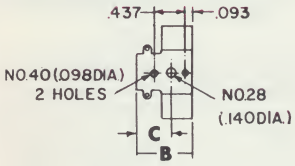
DIMPLE CONTACT

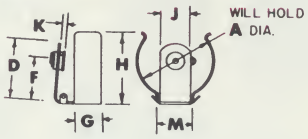
86
89
99

INSULATED CONTACT

87
88
100







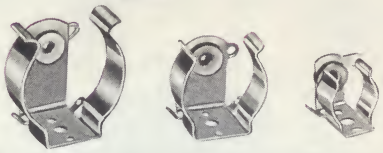


FIG. 1 DIMPLE CONTACT

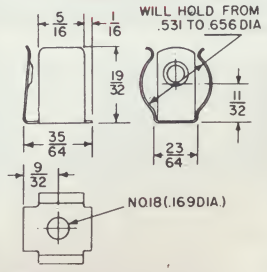
FIG. 2 INSULATED CONTACT

MATERIAL SPECIFICATIONS

CLIPS—Carbon Steel, SAE 1065 per Mil-S-17919#4, Heated Treated to Spring Temper, Nickel Plate Finish.
CONTACT EYELETS—Stainless Steel per Mil-S-18170 Comp 304.
INSULATING WASHERS—Resin Impregnated Fibre.
TERMINAL LUGS—Copper Per QQ-C-576A, Cad. Plated per QQ-P-416

CAT. NO.	FIG.	A DIA. MIN.-MAX.	±.015 B	±.010 C	±.015 D	±.015 F	±.005 G	±.020 H	±.005 J	±.005 K	±.015 M	STEEL THICK-NESS	FOR CELLS
86	1	.875 to 1.125	.703	.391	.812	.593	.375	.937	.500	.050	.605	.020	C
87	2	.875 to 1.125	.703	.391	.812	.593	.375	.937	.500	.070	.605	.020	C
88	2	1.187 to 1.350	.781	.437	1.031	.781	.437	1.218	.500	.070	.609	.020	D
89	1	1.187 to 1.350	.781	.437	1.031	.781	.437	1.218	.500	.050	.609	.020	D
99	1	.531 to .650	.703	.391	.609	.375	.375	.609	.312	.050	.353	.015	AA
100	2	.531 to .650	.703	.391	.609	.375	.375	.609	.312	.070	.353	.015	AA

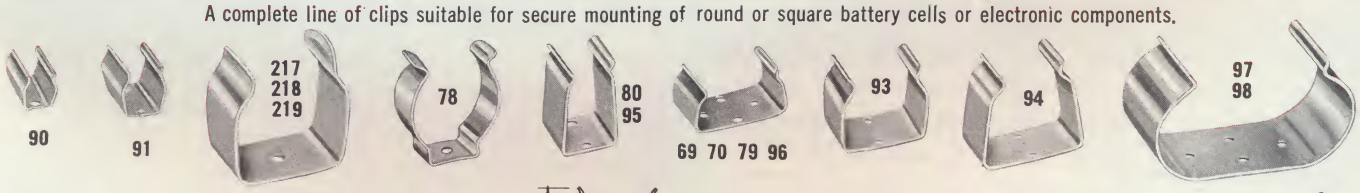
No. 92



MATERIAL .015 C.R. STEEL N.P.

BATTERY AND COMPONENT HOLDERS

A complete line of clips suitable for secure mounting of round or square battery cells or electronic components.



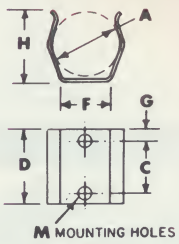


FIG. 1

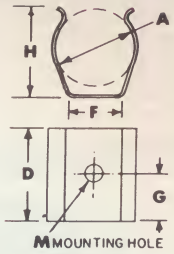


FIG. 2

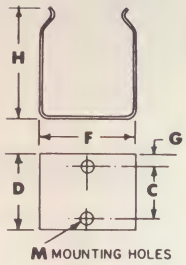


FIG. 3

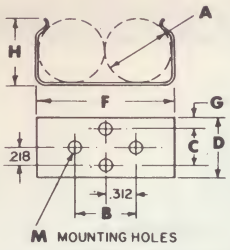


FIG. 4

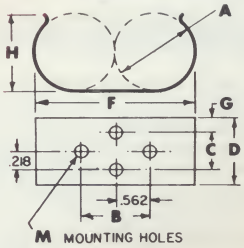


FIG. 5

CAT. NO.	FIG.	A MIN.-MAX. DIA. OR SIZE	±.005 B	±.005 C	±.005 D	±.015 F	±.010 G	±.015 H	±.003 M MTG. HOLES	MATERIAL	FOR CELLS
69	4	.562 (2)	.625	.437	.625	1.125	.093	.562	4#40 (.098)	.015 Steel	2U6
70	4	.656 (2)	.625	.437	.625	1.343	.093	.687	4#40 (.098)	.020 Alum.	(2) RM12
78	2	1.187x1.350	—	—	.500	.562	.250	1.218	1#29 (.136)	.020 Steel	D
79	4	.650x1.280	.625	.437	.625	1.050	.093	.765	2#40 (.098)	.015 Steel	T 146 X
80	3	.650x1.280	—	.437	.625	.675	.093	1.187	2#40 (.098)	.020 Steel	T 146 X
90	1	.375 to .468	—	.437	.625	.312	.093	.453	2#40 (.098)	.016 Alum.	AAA
91	1	.531 to .656	—	.437	.625	.406	.093	.593	2#40 (.098)	.020 Alum.	AA
93	1	.875 to 1.1250	—	.437	.625	.937	.093	.921	2#40 (.098)	.025 Alum.	C
94	3	1.187 to 1.375	—	.437	.625	1.250	.093	1.218	2#40 (.098)	.032 Alum.	D
95	3	.625 x 1.000	—	.437	.625	.656	.093	1.125	2#40 (.098)	.025 Alum.	U-15
96	4	.625 x 1.312	.625	.437	.625	1.218	.093	.671	2#40 (.098)	.020 Alum.	Y-20
97	5	1.031 (2)	—	.437	.625	2.062	.093	1.125	2#40 (.098)	.025 Alum.	(2) C
98	5	1.312 (2)	1.125	.437	1.000	2.656	.281	1.437	4#40 (.098)	.032 Alum.	(2) D
217	2	1.375 to 1.500	—	—	.812	1.218	.406	1.468	#22 (.157)	.025 Steel	NI-CAD
218	2	1.437 to 1.687	—	—	.812	1.375	.406	1.531	#22 (.157)	.025 Steel	NI-CAD
219	2	2.000 to 2.500	—	—	.812	1.687	.406	2.156	#22 (.157)	.025 Steel	NI-CAD

MATERIAL SPECIFICATIONS

ALUMINUM CLIPS

Per QQ-A-362, No Finish.

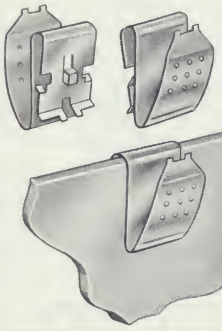
STEEL CLIPS

Carbon Steel, SAE 1065 per Mil-S-17919#4, Heat Treated to Spring Temper, Nickel Plate Finish.

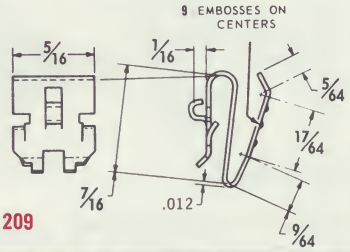
BATTERY HOLDER CLIPS AND ACCESSORIES

PENCELL SNAP-ON BATTERY HOLDER CLIPS

Clips over panels from .060 to .070 thick and is anchored by sharp barbs, eliminating the need for special grooves, slots or holes. Spring tension of contact leg provides excellent contact and takes up any variation in battery lengths. External solder ear will hold wire for easy soldering. Made of spring tempered steel, nickel plated.

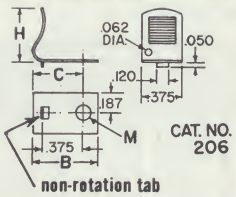


- IDEAL FOR MOLDED CASES
- SELF ANCHORING
- LOW COST
- SNAG-FREE BATTERY INSERTION



CAT. No. 209

ECONOMY CLIPS for "AA" Pencells — "C" and "D" Cells



CAT. NO. 206

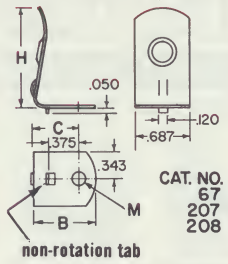
A low cost clip used with non-metallic bases.

Features: Single eyelet mount—non-rotating tab. Recessed Contact holds Battery Contact firmly.

MATERIAL: Spring Temper Steel and Nickel Plated.

CAT. NO.	B	C	H	M Mtg. Hole	For Cells
206	.609	.468	.500	.128	AA
207	.687	.547	.875	.128	C
208	.765	.562	1.290	.128	D
67	.765	.562	1.290	.156	D

67 does not have Non-Rotation Tab



CAT. NO. 67 207 208

INSULATED POLARIZING WASHERS

Insulated Polarizing Washers eliminate the danger of damage and short circuit to expensive transistor equipment. The washers hold securely when snapped over the eyelets used on our standardized battery holders.

Material: Precision molded of plastic.

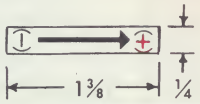
Cat. No. 59 (Red) **Cat. No. 60 (Black)**

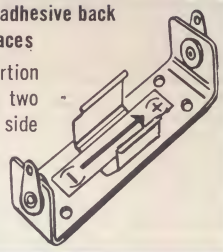
POLARITY INDICATING LABELS

- No gluing or wetting needed
- Pressure sensitive adhesive back
- Economical
- Adheres to all surfaces

Recommended where proper polarity of battery insertion or circuit polarity is to be shown. These labels are two color, (+) positive side red, arrow and (—) negative side is blue.

Cat. No. 58





CONTACT EYELETS

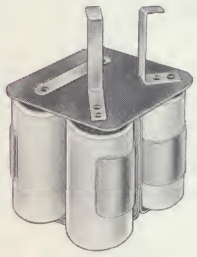
Used as contacts on battery holders. Available in brass or stainless steel.

BRASS EYELET
NICKEL PLATE
Fed. Spec. QQ626
Comp. 1
CAT. No. 4021

STAINLESS STEEL
Fed. Spec. QQS763
Class 305
CAT. No. 4022

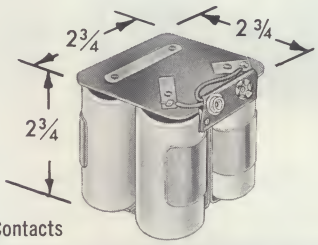
REPLACE-A-PAK BATTERY HOLDER

• HOLDS 4 "D" CELLS IN A MINIMUM OF SPACE • WIRED IN SERIES TO PROVIDE 6 VOLTS • REPLACES EXPENSIVE LANTERN PACKS • AVAILABLE WITH BRACKET OR SNAP CONTACTS.



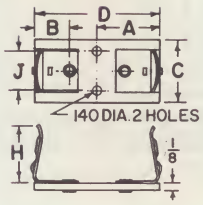
The easily obtained, inexpensive "D" cells replace the more costly and hard to obtain Battery Pack. Our **REPLACE-A-PAK** is ideal for flashlites and lanterns. Positive contact assured with spring brass or snap contacts. Lightweight and compact to fit where space is limited.

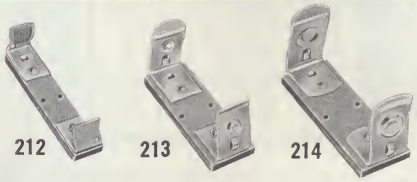
CAT. No. 215—Brass Leg Contacts



CAT. No. 216—Snap Contacts

ECONOMY BATTERY HOLDERS for "AA" Pencells—"C" & "D" Cells





Sturdily constructed with our economy clips mounted to a 1/8" thick masonite base. Battery contact is held in the recess of the clip and center clip is not required in most instances.

CAT. NO.	A	B	C	D	J	H	Use for These Batteries or Equivalent EVEREADY
212	1.062	.468	.625	2.125	.375	.500	AA, E9, E12, 505, 915
213	1.062	.547	1.000	2.125	.625	.875	"C", 935
214	1.203	.562	1.000	2.406	.625	1.290	"D", 950

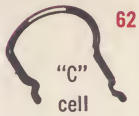
Multiple units supplied on special order either side by side or in-line.

BATTERY RETAINER CLIPS

- Prevents battery loosening in battery holder
- Slips into the ears of the clip of the battery holder
- Made of hi-carbon steel, spring tempered and nickel plated

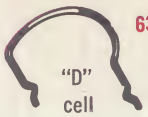
61
AA cell

Retainer for Pencells or Mercury cells with diameters of 17/32" to 9/16'. Used with Keystone clips #91, 92, 95, 99 and 100.
CAT. No. 61



62
"C" cell

Retainer for "C" cells or similar size batteries to 1 1/32" diameter. Used with Keystone clips #86, 87 and 93.
CAT. No. 62



63
"D" cell

Retainer for "D" cells or similar size batteries to 1 11/32" diameter. Used with Keystone clips #88, 89 or 94.
CAT. No. 63

Retainer for Mercury cells with diameter of .650" that fit Keystone clips #92, 99 or 100.
CAT. No. 66

BATTERY HOLDER CLIPS AND ACCESSORIES

BATTERY SNAP-ONS (Miniature and Standard)

Stud only

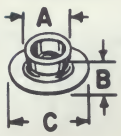


FIG. 1

1001 uses for most electronic applications requiring a quick connect and disconnect of circuit. Battery snaps are commonly used for transistor or regular cells designed for snap fasteners. Ideal for temporary or permanent means of connecting without soldering. Can be cascaded together for multiple connections.

Dimensions for reference only.

Socket only

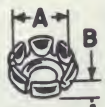


FIG. 2

on Phenolic Washer

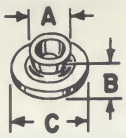


FIG. 5

Adapter

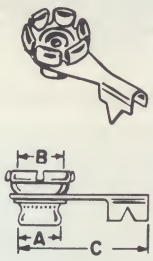


FIG. 7

on Phenolic Washer

FIG. 6

Stud w/Solder Lug

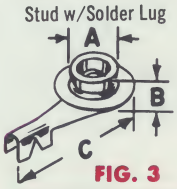
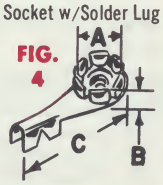


FIG. 3

Socket w/Solder Lug

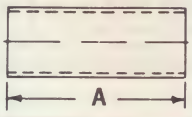
FIG. 4



CAT. NO.	Fig.	A	B	C	Description
261	1	.225	.135	.312	Jr. Stud only—.093 hole
262	1	.283	.143	.490	Sr. Stud only—.125 hole
269	2	.205	.132	—	Jr. Socket only—.093 hole
270	2	.265	.156	—	Sr. Socket only—.125 hole
263	3	.225	.200	.790	Jr. Stud w/Solder Lug
264	3	.283	.205	.895	Sr. Stud w/Solder Lug
271	4	.205	.200	.790	Jr. Socket w/Solder Lug
272	4	.265	.210	.835	Sr. Socket w/Solder Lug
265	5	.225	.205	.500	Jr. Stud on Phenolic Washer
266	6	.205	.205	.500	Jr. Socket on Phenolic Washer
273	5	.283	.200	.500	Sr. Stud on Phenolic Washer
274	6	.265	.225	.500	Sr. Socket on Phenolic Washer
267	7	.225	.205	.790	261 Eyeletted to 269 Adapter
268	7	.283	.265	.895	262 Eyeletted to 270 Adapter
275	7	.225	.265	.835	261 Eyeletted to 270 Adapter
276	7	.283	.205	.895	262 Eyeletted to 269 Adapter

BATTERY CELL TUBES

These are used with our 1100 and 2100 series of Battery Holders. Tubes hold 2, 3 or 4 batteries in line when end clips are used. Tube is black wound paper, heavily wax impregnated to retain stiffness and provides accurate fit for the batteries.



CAT. NO.	Length "A"	Inside Diam. "I.D."	Outside Diam. "O.D."	Holds No. Cells	Battery Type
4023	2.750	.670	.730	2	AA
4024	4.687	.670	.730	3	AA
4025	6.625	.670	.730	4	AA
4026	2.500	1.050	1.100	2	C
4027	4.437	1.050	1.100	3	C
4028	6.375	1.050	1.100	4	C
4029	3.250	1.345	1.395	2	D
4030	5.562	1.345	1.395	3	D
4031	7.750	1.345	1.395	4	D

BATTERY STRAPS

Made for batteries requiring a snap-on connection. Contacts are mounted securely to fibre and wire leads attached.

Jr. Socket

FIG. 1

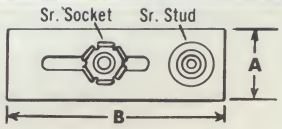
FIG. 2

Sr. Stud and Sr. Socket

Cat. No.	Fig. No.	A	EVEREADY	BURGESS	R.C.A.
72	1	1/2"	216 246 416	2U6 2N6 UX-5	VS-312 305 318
73	2	3/4"	266	M-6	
74	2	15/16"	495 479 437 477	N60X P60 XX50 P45	VS-316 216 217 218
75	2	1 3/8"	276	D6	VS-306
76	2	1 1/2"	455 457 467	XX-30 K45 XX-45	VS-055 082 016
77	2	2 1/2"	490	N-60	VS-090

UNIVERSAL BATTERY STRAPS

Designed for Servicemen, Lab or Production. Contacts staked securely to phenolic insulator 1/16" thick. One contact is stationary, the other contact can be shifted back or forth in the slot to desired spacing.



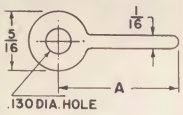
CAT. NO.	A WIDTH	B Length	FOR BATTERIES WITH SPACING
222	5/8"	2"	3/4" to 1 1/2"
223	5/8"	3 1/4"	2" to 3"

No Leads Attached

CONTACT ASSEMBLY TERMINALS

USED ON BATTERY HOLDERS

PRINTED CIRCUIT or WIRE WRAP TERM.

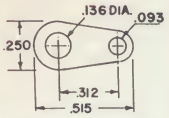


MAT.-020 COPPER TINNED

Can be substituted for the standard lug used on our Holders.

CAT. No.	A
4000	.500
4001	.562
4002	.750
4003	1.000

STANDARD TERMINALS



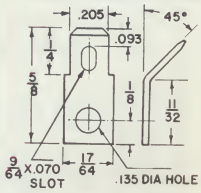
MAT.-016 COPPER CAD.PL.

Universal terminal proven popular in electronic assemblies and Battery Holders.

Per QQ-C-502A

CAT. No. 4004

KWIK CONNECT



MAT.-020 BRASS CAD.PL.

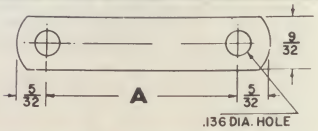
For solderless connection applications. Will accept .205 female disconnect.

CAT. No. 4005

CONNECTOR STRAPS (JUMPERS)

Various lengths suitable for many applications in electronic assemblies.

MAT.-.015 BRASS TINNED



CAT. No.	A
4006	.437
4007	.625
4008	.687
4009	.718
4010	.750

CAT. No.	A
4011	.781
4012	.812
4013	.875
4014	1.000
4015	1.187

CAT. No.	A
4016	1.312
4017	1.343
4018	1.500
4019	1.562
4020	1.625

STANDARDIZED TERMINAL BOARDS

STANDARDIZED TURRET TERMINAL BOARDS

Cut your production cost by eliminating the tooling and setup charge usually applied to nonstandardized boards. Terminals are securely riveted and hot tinned for easy soldering.

TERMINALS: Your choice of most popular types.
Made of Brass: QQ-626, comp. 22, ½ hard.
Hot Dip Solder finish: Mil-F-14072 Type 221.

Material: Your choice of either PBE or GEE Phenolic.

PBE: Paper base electrical, Mil-P-3115C, Temp. 250° F max. Type XXXP.

GEE: Glass Epoxy, Mil-P-18177, Temp. 300° F max. Type G-10.

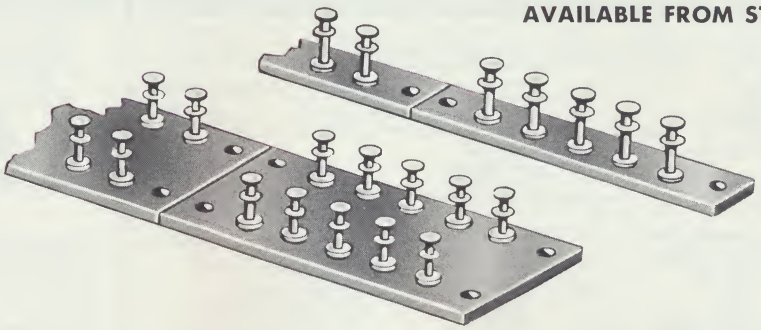
Five sections **SCORED** for easy **separation** M'tg. holes in each section.
These boards **CAN BE MODIFIED** with terminals staked in all holes, scoring eliminated. Marking can be added.

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.

Boards are available without terminals staked.
Prices on request.

SCORED TURRET TERMINAL BOARDS

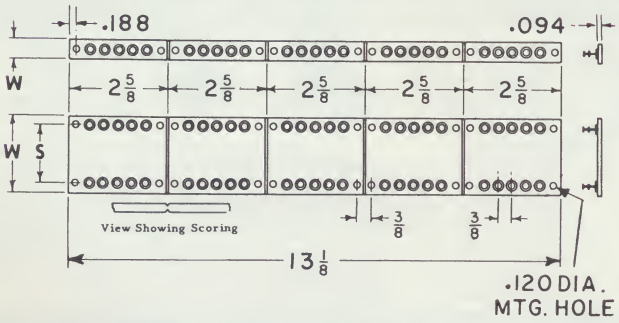
AVAILABLE FROM STOCK



Brackets and mounting Hardware listed on pages 30, 32 and 33.

3/8" SPACING AND SCORED

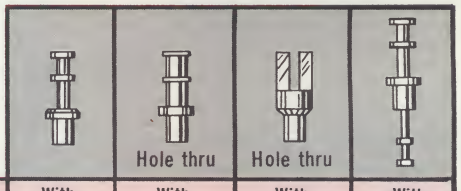
3/32" THICK PHENOLIC — Choice of 4 Types of Terminals
Overall Length of Board 13⅛", FIVE 2⅝" Sections.



Five sections **SCORED** for easy **separation**. M'tg. holes in each section.

Turret Terminal Boards without scoring listed on Page 11.

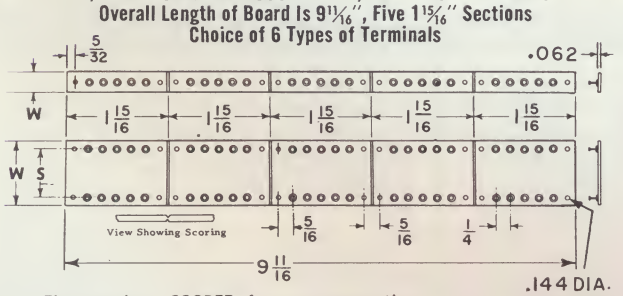
ALL TERMINAL DRAWINGS ARE ACTUAL SIZE
CHOICE OF TERMINALS



W	S	No. of Terms.	Material	With 1503 Term. Cat. No.	With 1509 Term. Cat. No.	With 1507 Term. Cat. No.	With 1545 Term. Cat. No.
½	Single Row	25	PBE	15031	15091	15071	15041
			GEE	15231	15291	15271	15241
1½	1	50	PBE	15032	15092	15072	15042
			GEE	15232	15292	15272	15242
1½	1 3/16	50	PBE	15036	15096	15076	15046
			GEE	15236	15296	15276	15246
2	1½	50	PBE	15033	15093	15073	15043
			GEE	15233	15293	15273	15243
2½	2	50	PBE	15034	15094	15074	15044
			GEE	15234	15294	15274	15244
3	2½	50	PBE	15035	15095	15075	15045
			GEE	15235	15295	15275	15245

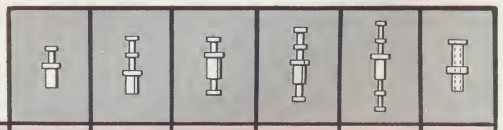
MINIATURE TURRET TERMINAL BOARDS

1/4" SPACING AND SCORED — 1/16" THICK PHENOLIC
Overall Length of Board Is 9 11/16", Five 1 15/16" Sections
Choice of 6 Types of Terminals



Five sections **SCORED** for easy **separation.** M'tg. holes in each section.

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE
CHOICE OF TERMINALS

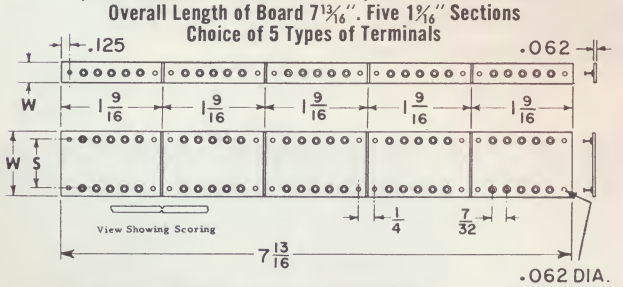


W	S	No. of Terms.	Material	With 1572 Term. Cat. No.	With 1573 Term. Cat. No.	With 1574 Term. Cat. No.	With 1575 Term. Cat. No.	With 1583 Term. Cat. No.	With 1559 Term. Cat. No.
5/16	Single Row	25	PBE	15047	15057	15067	15077	15087	15097
			GEE	15247	15257	15267	15277	15287	15297
7/8	9/16	50	PBE	15048	15058	15068	15078	15088	15098
			GEE	15248	15258	15268	15278	15288	15298
1⅛	13/16	50	PBE	15049	15059	15069	15079	15089	15099
			GEE	15249	15259	15269	15279	15289	15299

Turret Terminal Boards without scoring listed on Page 11.

MINIATURE TURRET TERMINAL BOARDS

7/32" SPACING AND SCORED — 1/16" THICK PHENOLIC
Overall Length of Board 7 13/16". Five 1 9/16" Sections
Choice of 5 Types of Terminals



Five sections **SCORED** for easy **separation.** M'tg. holes in each section.

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE
CHOICE OF TERMINALS

W	S	No. of Terms.	Material	With 1502 Term. Cat. No.	With 1562 Term. Cat. No.	With 1526 Term. Cat. No.	With 1512 Term. Cat. No.	With 1533 Term. Cat. No.
5/16	Single Row	25	PBE	15021	15023	15025	15063	15053
			GEE	15221	15223	15225	15263	15253
3/4	½	50	PBE	15028	15029	15026	15064	15054
			GEE	15228	15229	15226	15264	15254
1	3/4	50	PBE	15022	15024	15030	15065	15056
			GEE	15222	15224	15230	15265	15256

Turret Terminal Boards without scoring listed on Page 12.

READI-MADE TERMINAL BOARDS

- SAVE TOOLING
- ECONOMICAL
- COMPLETE RANGE OF SIZES
- DELIVERY FROM STOCK

READI-MADE TERMINAL BOARDS are low cost and meet commercial and military specifications. They are produced in large quantities, making it possible to eliminate tooling and setup charges usually applied to non-standardized boards.

TERMINALS: Made of BRASS, QQ-B-626, COMP. 22, ½ HARD. Terminals are staked in all holes except end mounting holes.

PLATING: HOT DIP SOLDER finish, MIL-F-14072. Recommended for longer shelf life and better solderability. Other platings can be furnished.

MATERIAL: Your choice of either PBE or GEE phenolic.

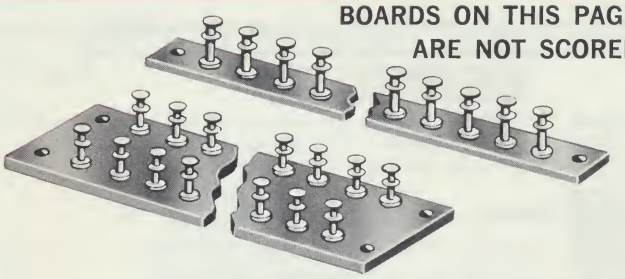
PBE: Paper base electrical, MIL-P-3115C, Type XXXP natural, Temp. 250 deg. F max.

GEE: Glass epoxy, MIL-P-18177, Type G-10, Temp. 300 deg. F max.

MODIFICATIONS: Other materials and terminals of your choice supplied. Marking may be added.

Boards are available without terminals staked.
Prices on request.

BOARDS ON THIS PAGE ARE NOT SCORED



Brackets and mounting Hardware listed on pages 30, 32 and 33.

1503
ACTUAL SIZE

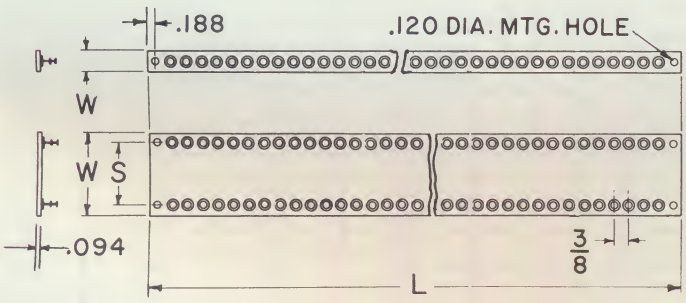
TURRET TERMINAL BOARDS

3/8" SPACING

Choice of sizes

TERMINAL: 1503-3 HTD*used on these boards. Height above board 23/64". (MIL-T-55155 — SE12-X-C-08 style SE12-8).

MATERIAL: Choice of **PBE** or **GEE 3/32" thick.**



Terminals are staked in all holes except end mounting holes.

SEE BRACKET PAGE FOR SUITABLE MOUNTING HARDWARE.

W	S	L	No. of Terms. Each Side	Material PBE Cat. No.	Material GEE Cat. No.
½	Single Row	2⅝	5	15101	15301
		5¼	12	15102	15302
		7⅞	19	15103	15303
		10½	26	15104	15304
		13⅛	33	15105	15305
13/16	¾	2⅝	5	15106	15306
		5¼	12	15107	15307
		7⅞	19	15108	15308
		10½	26	15109	15309
		13⅛	33	15110	15310
1½	1	2⅝	5	15111	15311
		5¼	12	15112	15312
		7⅞	19	15113	15313
		10½	26	15114	15314
		13⅛	33	15115	15315
2	1½	2⅝	5	15116	15316
		5¼	12	15117	15317
		7⅞	19	15118	15318
		10½	26	15119	15319
		13⅛	33	15120	15320
2½	2	2⅝	5	15121	15321
		5¼	12	15122	15322
		7⅞	19	15123	15323
		10½	26	15124	15324
		13⅛	33	15125	15325
3	2½	2⅝	5	15126	15326
		5¼	12	15127	15327
		7⅞	19	15128	15328
		10½	26	15129	15329
		13⅛	33	15130	15330

MINIATURE TURRET TERMINAL BOARDS

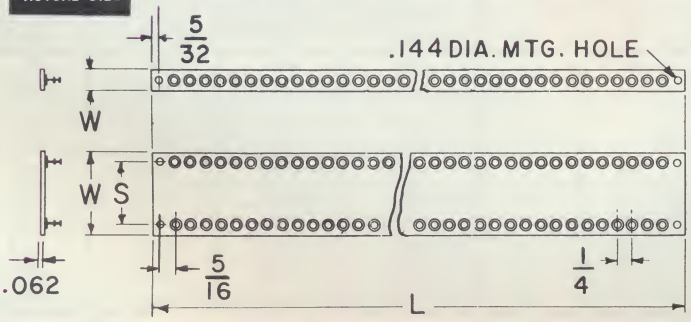
1573
ACTUAL SIZE

1/4" SPACING

Choice of sizes

TERMINAL: 1573-2 HTD* used on these boards. Height above board 3/16".

MATERIAL: Choice of **PBE** or **GEE 1/16" thick.**



*HTD HOT DIP SOLDER finish, MIL-F-14072.

W	S	L	No. of Terms. Each Side	Material PBE Cat. No.	Material GEE Cat. No.
5/16	Single Row	1 15/16	5	15431	15531
		3 11/16	12	15432	15532
		5 7/16	19	15433	15533
		7 3/16	26	15434	15534
		8 15/16	33	15435	15535
7/8	9/16	1 15/16	5	15436	15536
		3 11/16	12	15437	15537
		5 7/16	19	15438	15538
		7 3/16	26	15439	15539
		8 15/16	33	15440	15540
1⅛	13/16	1 15/16	5	15441	15541
		3 11/16	12	15442	15542
		5 7/16	19	15443	15543
		7 3/16	26	15444	15544
		8 15/16	33	15445	15545

READI-MADE TERMINAL BOARDS

MINIATURE TURRET TERMINAL BOARDS

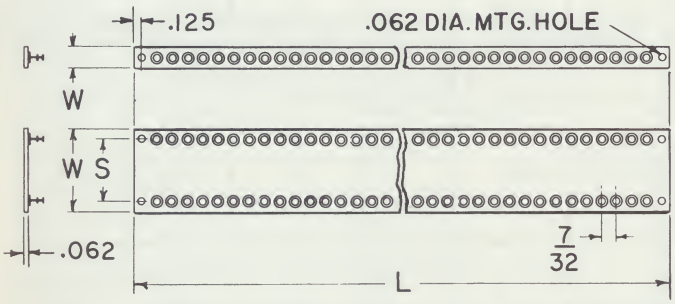
7/32" SPACING

These **GENERAL USE TERMINAL BOARDS** are made of certified materials to **JAN** and **MIL** specs. can be supplied in other grades of materials and with terminals of your choice; also marking when requested.

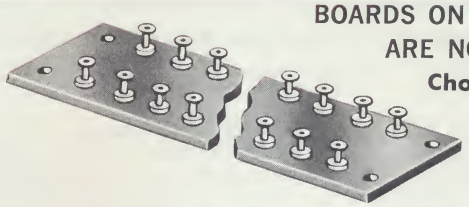
TERMINAL: Made of BRASS, QQ-B-626, COMP. 22, ½ Hard. HOT DIP SOLDER finish MIL-F-14072. Mounting holes in board at each end.

The **1562** terminal is often specified for support and connection of transistors, resistors and small component parts. There is a .043 dia. hole thru the terminal and it stands 5/32" above the board.

MATERIAL: Choice of **PBE** or **GEE 1/16" thick.**



Terminals are staked in all holes except end mounting holes.



BOARDS ON THIS PAGE ARE NOT SCORED

Choice of sizes

W	S	L	No. of Terms. Each Side	Material PBE Cat. No.	Material GEE Cat. No.
5/16	Single Row	1 9/16	5	15401	15501
		3 3/32	12	15402	15502
		4 5/8	19	15403	15503
		6 5/32	26	15404	15504
		7 11/16	33	15405	15505
3/4	1/2	1 9/16	5	15406	15506
		3 3/32	12	15407	15507
		4 5/8	19	15408	15508
		6 5/32	26	15409	15509
		7 11/16	33	15410	15510
1	3/4	1 9/16	5	15411	15511
		3 3/32	12	15412	15512
		4 5/8	19	15413	15513
		6 5/32	26	15414	15514
		7 11/16	33	15415	15515

TURRET TERMINAL STRIPS

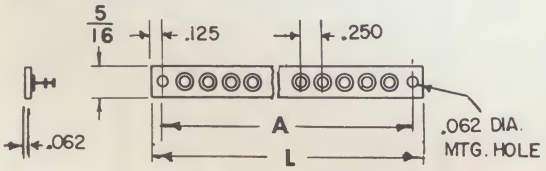
1/4" SPACINGS

Material: 1/16" Thick PBE, Nat.

TERMINAL DRAWINGS ARE ACTUAL SIZE. CHOICE OF TERMINALS.

Terminals: Made of Brass QQ-B-626, comp 22, ½ hard.

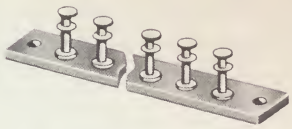
FINISH: Hot Dip Solder for long shelf life and better solderability. MIL-F-14072, TYPE 221.



L	A	No. of Terms.	With 1502 Term. Cat. No.	With 1562 Term. Cat. No.	With 1526 Term. Cat. No.	With 1512 Term. Cat. No.
3/4	1/2	1	602-1	606-1	608-1	605-1
1	3/4	2	602-2	606-2	608-2	605-2
1 1/4	1	3	602-3	606-3	608-3	605-3
1 1/2	1 1/4	4	602-4	606-4	608-4	605-4
1 3/4	1 1/2	5	602-5	606-5	608-5	605-5
2	1 3/4	6	602-6	606-6	608-6	605-6
2 1/4	2	7	602-7	606-7	608-7	605-7
2 1/2	2 1/4	8	602-8	606-8	608-8	605-8
2 3/4	2 1/2	9	602-9	606-9	608-9	605-9
3	2 3/4	10	602-10	606-10	608-10	605-10

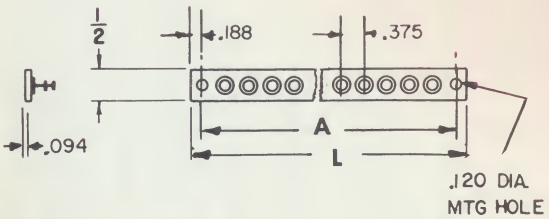
TURRET TERMINAL STRIPS

SPACING 3/8"



Material: 3/32" Thick PBE, Nat.

TERMINAL DRAWINGS ARE ACTUAL SIZE. CHOICE OF TERMINALS.



Terminals are staked in all holes except end mounting holes.

L	A	No. of Terms.	With 1503 Term. Cat. No.	With 1509 Term. Cat. No.	With 1545 Term. Cat. No.	With 1507 Term. Cat. No.
				Hole thru		Hole thru
1 1/8	3/4	1	603-1	609-1	604-1	607-1
1 1/2	1 1/8	2	603-2	609-2	604-2	607-2
1 7/8	1 1/2	3	603-3	609-3	604-3	607-3
2 1/4	1 7/8	4	603-4	609-4	604-4	607-4
2 5/8	2 1/4	5	603-5	609-5	604-5	607-5
3	2 5/8	6	603-6	609-6	604-6	607-6
3 3/8	3	7	603-7	609-7	604-7	607-7
3 3/4	3 3/8	8	603-8	609-8	604-8	607-8
4 1/8	3 3/4	9	603-9	609-9	604-9	607-9
4 1/2	4 1/8	10	603-10	609-10	604-10	607-10

MODIFICATIONS: WE CAN MAKE THESE BOARDS IN LONGER LENGTHS, OTHER MATERIALS AND USING ANY OTHER STANDARD TERMINALS.

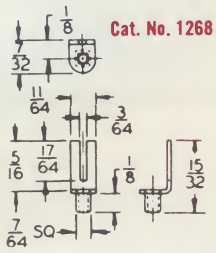
KEYSTONE ELECTRONICS CORP., 49 BLEECKER ST., NEW YORK, N. Y. 10012 • (212) 475-4600

READI-MADE TERMINAL BOARDS

Readi-Made Terminal Boards are ideal for General Use. Excellent for mounting resistors, condensers, etc. Choice of Terminals.

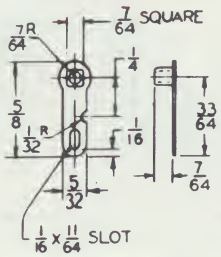
- **SAVE TOOLING COST**
- **RANGE OF SIZES**
- **ECONOMICAL**
- **DELIVERY FROM STOCK**
- **APPROVED MATERIALS**

Cat. No. 1268



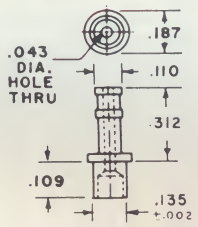
BRASS–HOT TIN DIP

Cat. No. 1204

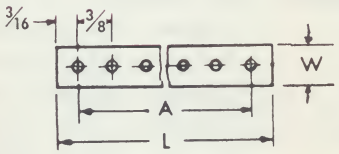


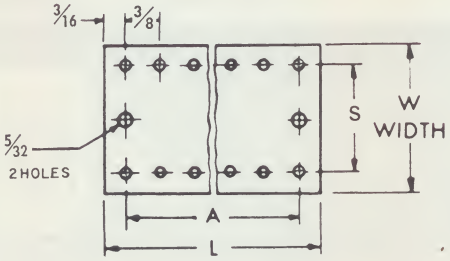
BRASS–CADMIUM PLATE

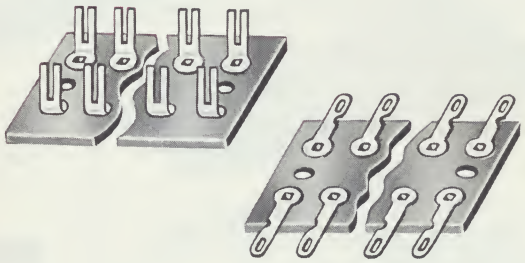
Cat. No. 1539



BRASS HOT TIN DIP







TERMINALS: 1204 and 1268 are stamped from .023 thick brass. 1539 is turned from 3/16" dia. brass rod.
PLATING: 1204 is Cadmium plated. 1268 and 1539 are Hot Tinned for easy soldering.

MATERIAL: 1/16" thick Bakelite

TERMINAL DRAWINGS ARE ACTUAL SIZE

CHOICE OF TERMINALS

W	L	S	A	Terminals Each Side	With 1268 Term. Cat. No.	With 1204 Term. Cat. No.	With 1539 Term. Cat. No.
1	1⅞	11/16	1½	5	1268-10	1204-10	1239-10
1	2¼	11/16	1⅞	6	1268-12	1204-12	1239-12
1	5¼	11/16	4⅞	14	1268-28	1204-28	1239-28
1¾	3¾	1 7/16	3⅜	10	1268-20	1204-20	1239-20
1¾	4⅛	1 7/16	3¾	11	1268-22	1204-22	1239-22
1¾	7⅛	1 7/16	6¾	19	1268-38	1204-38	1239-38
½	7⅛	Single Row	6¾	19	1268-19	1204-19	1239-19

UNIVERSAL TERMINAL BOARDS

Designed for production or experimental use, these **standardized boards** are well suited for any electronic application requiring a sturdy mounting surface for resistors, condensers and components.

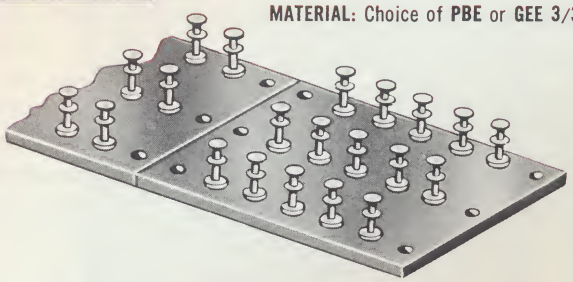
TERMINAL: 1503-3 HOT TIN DIP finish for easier soldering and infinite shelf life.

MATERIALS: **PBE** (Paper Base Elect. Mil-P-3115C type XXXP)
GEE (Glass Epoxy Mil-P-18177 type G-10)

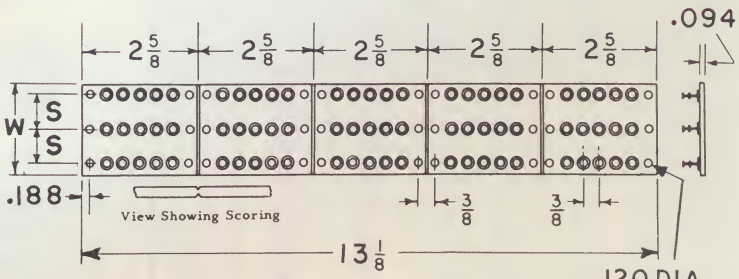
NOTE: **5 Sections Scored for easy separation.**
3 Rows of Terminals.

MODIFICATIONS: Other materials and terminals of your choice supplied. Marking may be added.

MATERIAL: Choice of **PBE** or **GEE** 3/32" thick.



Assembled with **TERMINAL** 1503-3

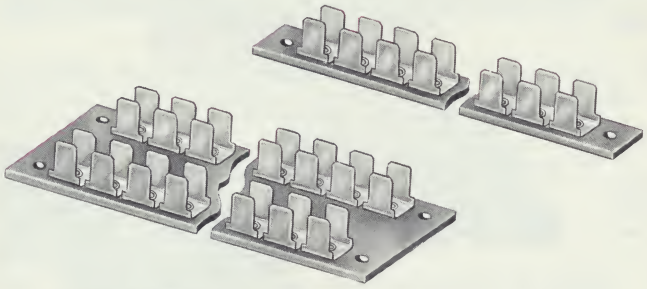


5 Sections Scored for easy separation.
3 Rows of Terminals.

W	S	Total No. of Terms.	Material	Cat. No.
2½	1	75	PBE	15332
			GEE	15342
3½	1½	75	PBE	15333
			GEE	15343

STANDARDIZED KWIK DISCONNECT TERMINAL BOARDS

• AVAILABLE FROM STOCK • CHOICE OF TERMINALS • NO TOOLING COST • RANGE OF SIZES • ECONOMICAL



KWIK disconnect boards permit solderless connections of several circuits to a common feed line. For temporary or permanent connections. Eliminates excess wiring and soldering.

MATERIAL: Fiberglass—NEMA GRADE GPO-1. A glass polyester rated for continuous operation at 155°C or 300°F. Color of sheet is tan.

BACKING STRIPS: 1/32" thick fibre with mounting holes drilled only.

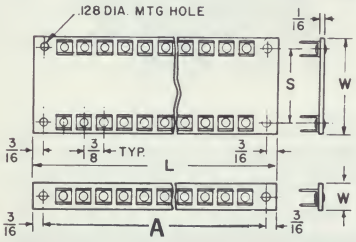
TERMINALS: **1253, 1254, 1255** made of Brass. MIL SPEC QQ-B-613, .018 Thick

PLATING: Hot tinned MIL-F-14072.

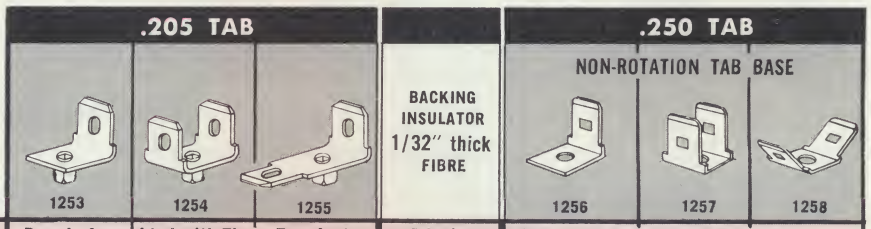
TERMINALS: **1256, 1257, 1258** made of Brass. MIL SPEC QQ-B-613, .032 Thick

PLATING: Bright Brass

Other platings available on special order.



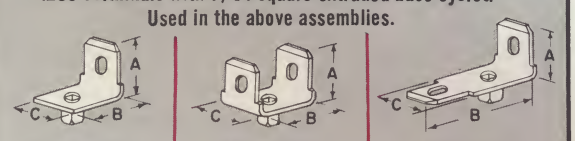
MATERIAL:
1/16" THICK
FIBERGLASS



W Width	L Length	A Mtg. C'trs	S	No. Term. Each Side	Boards Assembled with These Terminals CAT. NO.	CAT. NO.	CAT. NO.	Backing Strip CAT. NO.	Boards Assembled with These Terminals CAT. NO.	CAT. NO.	CAT. NO.
½	1½	1⅛	Single Row	2	4041	4056	4071	4401	4101	4116	4131
	2¼	1⅞		4	4042	4057	4072	4402	4102	4117	4132
	3	2⅝		6	4043	4058	4073	4403	4103	4118	4133
	3¾	3⅜		8	4044	4059	4074	4404	4104	4119	4134
	4½	4⅛		10	4045	4060	4075	4405	4105	4120	4135
1½	1½	1⅛	1	2	4046	4061	4076	4406	4106	4121	4136
	2¼	1⅞		4	4047	4062	4077	4407	4107	4122	4137
	3	2⅝		6	4048	4063	4078	4408	4108	4123	4138
	3¾	3⅜		8	4049	4064	4079	4409	4109	4124	4139
	4½	4⅛		10	4050	4065	4080	4410	4110	4125	4140
2	1½	1⅛	1½	2	4051	4066	4081	4411	4111	4126	4141
	2¼	1⅞		4	4052	4067	4082	4412	4112	4127	4142
	3	2⅝		6	4053	4068	4083	4413	4113	4128	4143
	3¾	3⅜		8	4054	4069	4084	4414	4114	4129	4144
	4½	4⅛		10	4055	4070	4085	4415	4115	4130	4145

KD TERMINALS ONLY • AVAILABLE FROM STOCK

.205 Terminals with 7/64 square extruded base eyelet. Used in the above assemblies.



.250 Terminals are Bright Brass finish. .130 dia. hole

CAT. NO.	A	B	C	Tab Width	Mat. Th'k'ns
1253	.328	.335	.270	.205	.018
1254	.328	.396	.270	.205	.018
1255	.328	.703	.270	.205	.018
1256	.437	.312	.312	.250	.032
1257	.405	.343	.312	.250	.032
1258	.405	.281	.312	.250	.032

MATING DISCONNECTS AND INSULATORS for either .205 or 250 KD Terminals

FEMALE KWIK DISCONNECTS

Wire Crimp with Insulation Support

Fits Tab .016-.030 thick and .205 wide
Wire Range 16-20
For .205 Terminals

CATALOG NO. 4469

Fits Tab .032 thick and .250 wide
Wire Range 16-20
For .250 Terminals

CATALOG NO. 4470

MOLDED VINYL PLASTIC BOOT

Slips over terminal. No tools or fastening required.

Available in the following colors:

Cat. No.	Colors
4471	Clear
4472	Red
4473	Blue
4474	Yellow

HEAVY DUTY BINDING POST STRIPS

Your Choice of Glass Epoxy or Fiberglass Materials

MATERIAL SPECIFICATIONS

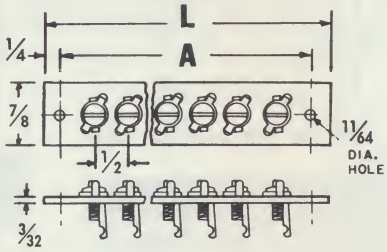
FIBERGLASS: Reinforced Polyester NEMA Grade GPO-1, rated for 300°F. (155°C).

GEE: Glass Epoxy, MIL P-18177 temp., 300°F Max. Type G-10.

- Available from Stock
- Eliminate Costly Setup Charges

Terminal supplied on these boards is **No. 1209**, Brass, Hot tin finish. Dimensional dwg. on Page 35.

3/32" THICK MATERIAL 7/8" WIDE				
Glass Epoxy Cat. No.	Fiber-glass Cat. No.	L Length	A Mtg. C'trs	No. Term.
4147	4157	1½	1	1
4148	4158	2	1½	2
4149	4159	2½	2	3
4150	4160	3	2½	4
4151	4161	3½	3	5
4152	4162	4	3½	6
4153	4163	4½	4	7
4154	4164	5	4½	8
4155	4165	5½	5	9
4156	4166	6	5½	10

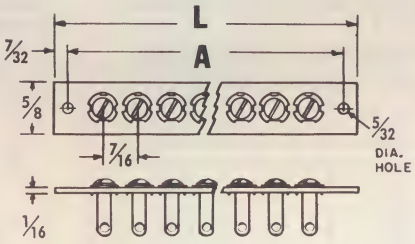


Terminals spaced ½" apart

STANDARD BINDING POST STRIPS

Terminal supplied on these boards is **No. 1248**, Brass, Cad. Pl. Dimensional dwg. on Page 35.

1/16"THICK MATERIAL 5/8" WIDE				
Glass Epoxy Cat. No.	Fiber-glass Cat. No.	L Length	A Mtg. C'trs	No. Term..
4177	4167	1¼	⅞	1
4178	4168	1 11/16	1 5/16	2
4179	4169	2⅛	1¾	3
4180	4170	2 9/16	2 3/16	4
4181	4171	3	2⅝	5
4182	4172	3 7/16	3 1/16	6
4183	4173	3⅞	3½	7
4184	4174	4 5/16	3 15/16	8
4185	4175	4¾	4⅜	9
4186	4176	5 3/16	4 13/16	10



Terminals spaced 7/16" apart

FEED-THRU TERMINAL BOARDS

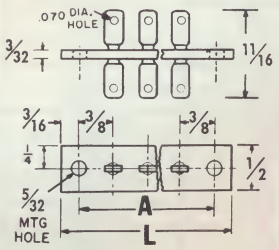
Copper pins are forced into hole of the phenolic, then flattened and pierced. Terminals are hot tin dipped for good solderability.

- Low Cost Feed-Thru Terminations
- For Light or Heavy Duty Applications

CAT. NO.	No. Lugs	A Mtg. Ctr.	L Length
1220- 1	1	¾	1⅛
1220- 2	2	1⅛	1½
1220- 3	3	1½	1⅞
1220- 4	4	1⅞	2¼
1220- 5	5	2¼	2⅝
1220- 6	6	2⅝	3
1220- 7	7	3	3⅜
1220- 8	8	3⅜	3¾
1220- 9	9	3¾	4⅛
1220-10	10	4⅛	4½

MATERIAL:

PBE: Paper base electrical, MIL-P-3115C, Type XXXP Temp. 250 deg. F max.

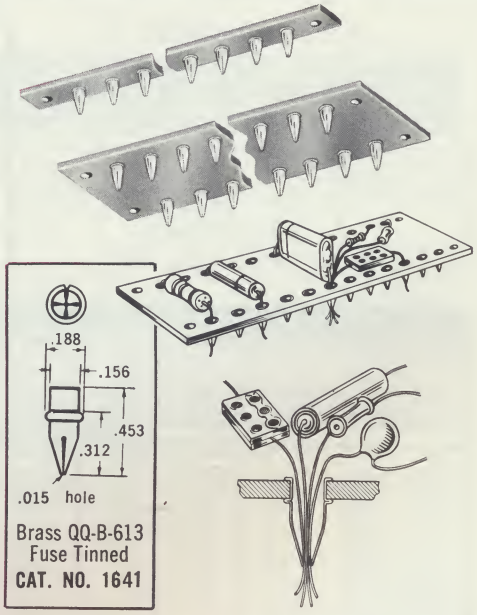


CONICAL GRIP BOARDS

- More Reliable
- Time Saving
- Less Costly
- Easily Serviced

- SPRING ACTION FINGERS HOLD LEADS
- ELIMINATES TIME-CONSUMING WRAPPING OF WIRES

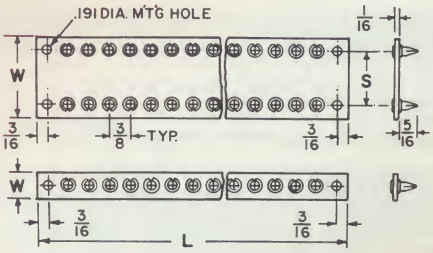
Brass, tinned Conical Terminals are firmly staked to 1/16" thick fiberglass insulator that will withstand temperatures to 300 degrees F. Wire leads are retained until ready to multiple dip solder.



Brass QQ-B-613 Fuse Tinned
CAT. NO. 1641

MATERIAL SPECIFICATIONS:

FIBERGLASS: Reinforced Polyester NEMA Grade GPO-1, rated for 300°F. (155°C).



W	S	L	NO. OF TERM. EACH SIDE	CAT. NO.
½	Single Row	2⅝	5	4500
		5¼	12	4501
		7⅞	19	4502
		10½	26	4503
		13⅛	33	4504
1½	1	2⅝	5	4505
		5¼	12	4506
		7⅞	19	4507
		10½	26	4508
		13⅛	33	4509
2	1½	2⅝	5	4510
		5¼	12	4511
		7⅞	19	4512
		10½	26	4513
		13⅛	33	4514

KEYSTONE ELECTRONICS CORP. · DESIGNERS · MANUFACTURERS · NEW YORK, N.Y. 10012

KEYBOARDS

PRE-PUNCHED TERMINAL BOARDS

THE PRACTICAL APPROACH TO SIMPLE OR COMPLEX CIRCUITRY

LOW COST — IMMEDIATE DELIVERY — CHOICE OF SIX POPULAR PATTERNS AND MATERIALS

STANDARDIZED KEYBOARDS: Permits time saving, low cost, assembly of components. Used extensively in development of prototype breadboarding, test design or production runs. A large selection of sizes and materials offers the designer the flexibility and convenience needed to create special circuitry on short notice.

ELECTRONIC HARDWARE: A large selection of turret, push-in and stamped terminals, brackets, eyelets, etc. available from stock.

STAKING TOOLS: Inexpensive tooling supplied for staking eyelets, bushings, turret terminals, etc. You can do an entire assembly at your bench with ease, using our impact tool. Other tools for arbor, kickpress, drill press. See Staking Tool page

SPECIAL SERVICES: We will install eyelets or terminals to suit your application. We invite inquiries for special sizes or additional holes drilled. Prompt quotations rendered at no cost to you.

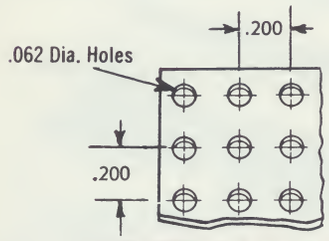
MATERIAL SPECIFICATIONS & TOLERANCES

XXXP Type PBE (Paper Base Elect.) Mil-P-3115C Temp. 250° F Max.
XXXPC Type PP Copper Clad Mil-P-13949 Temp. 250° F Max.
PAPER BASE EPOXY Mil-P-22324 (Type PEE) Temp. 250° F Max.
GLASS EPOXY UNCLAD Mil-P-18177 G-10 (GEE) Temp. 300° F. Max.
GLASS EPOXY Copper Clad Mil-P-13949B (GE) Temp. 300° F Max.

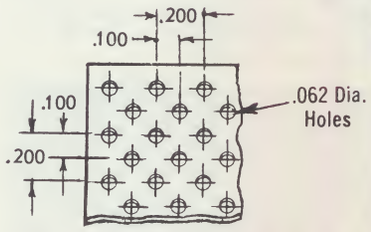
TOLERANCE: Length and width overall dimension after fabrication Plus or Minus .015.

HOLE SIZE: Plus or Minus .003.

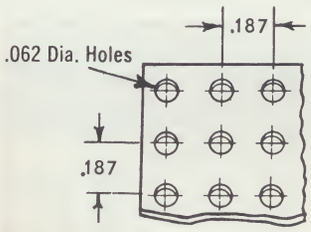
Thickness of standard sheet varies Plus or Minus .008 for 1/16 or .010 for 3/32" thick.



"F" PATTERN .062 DIA. HOLES



"G" PATTERN .062 DIA. HOLES



"B" PATTERN .062 DIA. HOLES

"F" PATTERN .062 DIA. HOLES .200 x .200 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	Glass Epoxy	Paper Base Epoxy	Glass Epoxy Cop. Clad (1 Side)	Glass Epoxy Cop. Clad (2 Sides)	XXXP Cop. Clad (1 Side)	XXXP Cop. Clad (2 Sides)
		1/16" THICK						
		Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
1.25 x 8.50	6 x 42	1730	1844	1730EP	1846	1847	1848	1853
3.00 x 4.50	15 x 22	1835	1845	1835EP	1836	1837	1838	1839
3.63 x 8.50	18 x 42	1773	1854	1773EP	1855	1856	1857	1858
3.63 x 17.00	18 x 85	1775	1859	1775EP	1864	1865	1866	1867
4.50 x 6.50	22 x 30	1868	1870	1868EP	1876	1877	1878	1879
4.50 x 8.50	22 x 42	1869	1871	1869EP	1881	1886	1887	1888
4.88 x 8.50	24 x 42	1774	1872	1774EP	1882	1889	1894	1899
4.88 x 17.00	24 x 85	1776	1873	1776EP	1883	1891	1895	1902
8.50 x 8.50	42 x 42	1777	1874	1777EP	1884	1892	1896	1903
8.50 x 17.00	42 x 85	1778	1875	1778EP	1885	1893	1897	1904

"G" PATTERN .062 DIA. HOLES .100 GRID ALTERNATES

Size Width & Length	No. of Holes W & L	XXXP Natural	Glass Epoxy	Paper Base Epoxy	Glass Epoxy Copper Clad (1 Side)	Glass Epoxy Copper Clad (2 Sides)
		1/16" THICK				
		Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
1.75 x 4.00	(8 x 19) x 2	1752	1909	1752EP	1919	1920
2.25 x 8.50	(11 x 42) x 2	1754	1910	1754EP	1921	1922
3.50 x 4.00	(17 x 19) x 2	1753	1911	1753EP	1923	1924
3.50 x 8.50	(17 x 42) x 2	1905	1912	1905EP	1925	1926
3.50 x 17.00	(17 x 85) x 2	1906	1913	1906EP	1927	1928
3.88 x 8.50	(19 x 42) x 2	1907	1914	1907EP	1929	1930
4.88 x 8.50	(24 x 42) x 2	1908	1915	1908EP	1931	1932
4.88 x 17.00	(24 x 85) x 2	1779	1916	1779EP	1933	1934
8.50 x 8.50	(42 x 42) x 2	1780	1917	1780EP	1935	1936
8.50 x 17.00	(42 x 85) x 2	1781	1918	1781EP	1937	1938

"B" PATTERN .062 DIA. HOLES .187 x .187 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	XXXP Copper Clad (1 Side)
		1/16" THICK	
		Cat. No.	Cat. No.
1.38 x 8.50	6 x 45	1761	1818
1.88 x 8.50	10 x 45	1734	1819
2.44 x 3.38	12 x 17	1812	1813
2.84 x 8.50	15 x 45	1735	1820
3.66 x 6.75	19 x 35	1824	1825
5.69 x 8.50	30 x 45	1762	1834
5.69 x 17.00	30 x 90	1736	1831
6.75 x 7.31	35 x 39	1826	1827
7.31 x 10.50	38 x 56	1828	1829
7.31 x 18.00	38 x 95	1832	1830
8.50 x 17.00	45 x 90	1763	1833

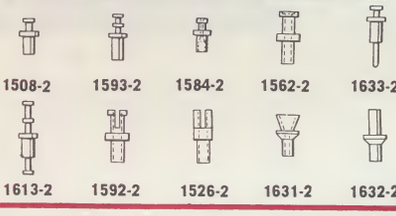
TERMINALS AND EYELETS
For Boards with .062 dia. Holes

Dimensional drawings of Terminals on pages 38 to 41

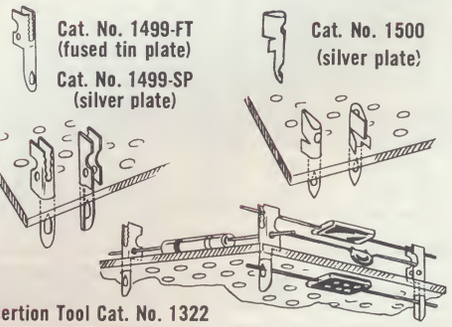
TERMINALS

Brass, (Mil Spec QQ626) and Silver Plated.

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.



PUSH-IN TERMINALS Made of Beryllium Copper.



Insertion Tool Cat. No. 1322

PRECISION MADE EYELETS

Made of Brass and Hot Tinned for easy solderability.

Cat. No. 23 For 1/16" thick Board

MINIATURE TUBULAR TERMINALS

• TAPERED SECTION RETAINS WIRE LEADS

Terminals are pre-tinned for easy soldering.

Insertion Tool Cat. No. 1214

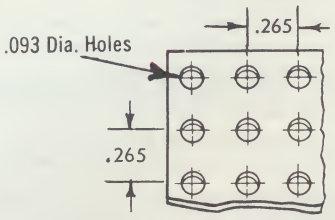
A variety of mounting brackets and staking tools are listed on the following pages.

PRE-PUNCHED TERMINAL BOARDS

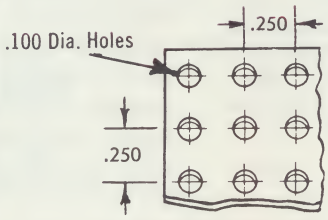
KEYBOARDS

KEYSTONE ELECTRONICS CORP. DESIGNERS MANUFACTURERS NEW YORK, N.Y. 10012

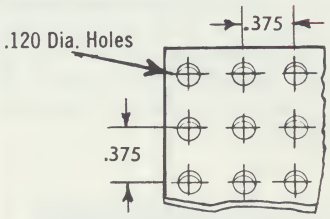
- COMPLETE RANGE OF SIZES AND SUITABLE HARDWARE
- "DO IT YOURSELF" STAKING TOOLS
- COPPER CLAD FOR PRINTED CIRCUITS
- UNCLAD TYPE FOR WIRED CIRCUITS
- STANDARD AND CUSTOM-MADE



"A" PATTERN .093 DIA. HOLES



"E" PATTERN .100 DIA. HOLES



"H" PATTERN .120 DIA. HOLES

"A" PATTERN .093 DIA. HOLES .265 x .265 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	Glass Epoxy	Paper Base Epoxy
1/16" THICK				
		Cat. No.	Cat. No.	Cat. No.
.82 x 8.50	3 x 32	1731	1790	1796EP
1.88 x 8.50	7 x 32	1737	1791	1797EP
2.44 x 8.50	9 x 32	1738	1788	1798EP
3.25 x 8.50	13 x 32	1785	1789	1801EP
3.25 x 17.00	13 x 64	1786	1787	1802EP
4.88 x 4.88	18 x 18	1806	1807	1803EP
4.88 x 8.50	18 x 32	1784	1792	1804EP
4.88 x 17.00	18 x 64	1739	1793	1805EP
8.50 x 8.50	32 x 32	1732	1794	1808EP
8.50 x 17.00	32 x 64	1733	1795	1809EP
3/32" THICK				
1.38 x 1.88	5 x 7	1758	—	1758EP
1.38 x 4.00	5 x 15	1760	—	1760EP
1.38 x 8.50	5 x 32	1749	—	1749EP
1.88 x 2.94	7 x 11	1759	—	1759EP
1.88 x 8.50	7 x 32	1740	—	1740EP
2.44 x 8.50	9 x 32	1741	—	1741EP
3.25 x 8.50	13 x 32	1814	—	1814EP
3.25 x 17.00	13 x 64	1816	—	1816EP
4.88 x 8.50	18 x 32	1756	—	1756EP
4.88 x 17.00	18 x 64	1742	—	1742EP
8.50 x 8.50	32 x 32	1817	—	1817EP
8.50 x 17.00	32 x 64	1757	—	1757EP

"E" PATTERN .100 DIA. HOLES .250 x .250 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural
1/16" THICK		
		Cat. No.
2.13 x 4.00	8 x 16	1750
2.13 x 8.50	8 x 34	1765
3.63 x 8.50	14 x 34	1766
8.50 x 8.50	34 x 34	1767
8.50 x 17.00	34 x 68	1768
3/32" THICK		
2.13 x 8.50	8 x 34	1770
8.50 x 8.50	34 x 34	1771
8.50 x 17.00	34 x 68	1772

"H" PATTERN .120 DIA. HOLES .375 x .375 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	Paper Base Epoxy
1/16" THICK			
		Cat. No.	Cat. No.
1.88 x 8.25	5 x 22	1743	—
2.25 x 8.25	6 x 22	1744	—
4.13 x 8.25	11 x 22	1782	—
4.13 x 16.50	11 x 44	1745	—
3/32" THICK			
1.88 x 8.25	5 x 22	1746	1746EP
2.25 x 8.25	6 x 22	1747	1747EP
4.13 x 8.25	11 x 22	1783	1783EP
4.13 x 16.50	11 x 44	1748	1748EP
6.00 x 8.25	16 x 22	1941	1941EP
6.00 x 16.50	16 x 44	1942	1942EP
8.25 x 8.25	22 x 22	1943	1943EP
8.25 x 16.50	22 x 44	1939	1939EP

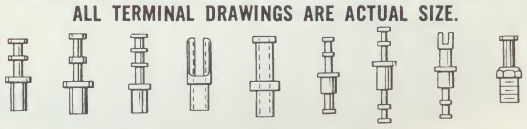
TERMINALS AND EYELETS For Boards with .093-.100 dia. Holes

NOTE: When ordering Turret Terminals **BE SURE TO SPECIFY Cat. No. of Terminal** and add **—2 for 1/16" thick Board** and **—3 for 3/32" thick Board**

I.E. **1598-2** for 1/16" thick Board and **1598-3** for 3/32" thick Board

TERMINALS Brass (Mil Spec QQ626) and Silver Plated.

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.

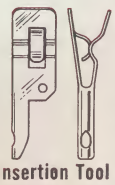


1502 1514 1598 1511 1540 1530 1512 1634 1595

PUSH-IN TERMINAL

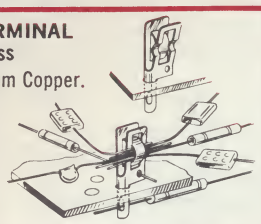
SOLDERLESS

Made of Beryllium Copper.



Cat. No. 1498-CP (cadmium plate)

Cat. No. 1498-SP (silver plate)



Insertion Tool Cat. No. 1323

PRECISION MADE EYELETS

Made of Brass and Hot Tinned for easy solderability

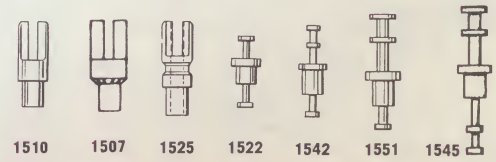
Specify **Cat. No. 33** for 1/16" thick Board
Cat. No. 34 for 3/32" thick Board

TERMINALS AND EYELETS For Boards with .120 dia. Holes

TERMINALS

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.

1532 1504 1505 1503 1553 1509 1541



1510 1507 1525 1522 1542 1551 1545

PRECISION MADE EYELETS

Specify **Cat. No. 43** eyelet for 1/16" thick Board
Cat. No. 44 eyelet for 3/32" thick Board

Dimensional drawings of Terminals on pages 38 to 41

PLUG-IN CARDS

STANDARDIZED PERFORATED PLUG-IN-CARDS

These boards provide a quick, economical and flexible method to produce electronic circuitry. All boards listed here have **.062 (1/16" dia.) holes on alternate .100 centers.** Made of 1/16" thick glass epoxy G-10 **Mil-P-18177,** or paper base epoxy **Mil-P-22324.** Available with or without Elco "Varicon" contacts attached. Contacts are gold plated. Receptacles are available from local distributors.

HARDWARE: We stock a variety of brass turret terminals, push-in, and stamped terminals, eyelets, brackets, washers etc.

STAKING TOOLS: We stock a variety of staking tools for eyelets and terminals suitable for production staking, or "DO IT YOURSELF" simple tooling for use at the bench. See page **36**

SERVICES: We install terminals or eyelets and can custom make boards suitable for your application. Standard tooling used wherever possible at no tool charge to customer, unless extreme changes are necessary. Additional holes can be drilled at a slight charge

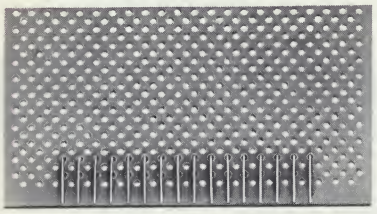


FIG. 1

AVAILABLE FROM STOCK IN A CHOICE OF 3 VARIATIONS

1. Elco "Varicon" contacts and eyelets assembled.
2. Eyelets only less "Varicon" contact.
3. Board only — less all hardware.

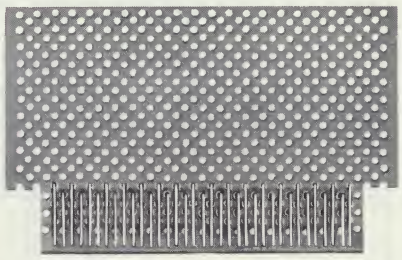
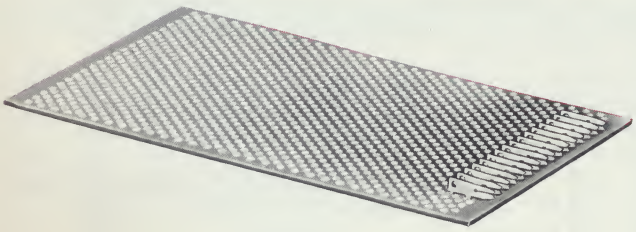
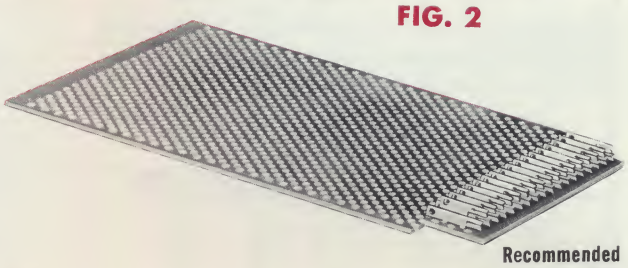


FIG. 2





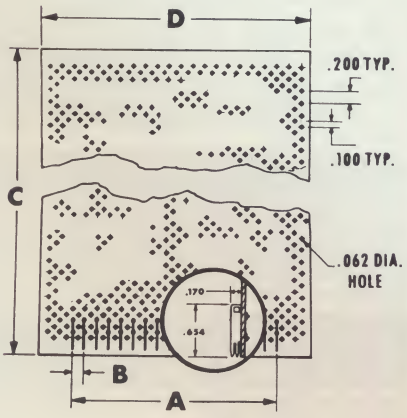


FIG. 1

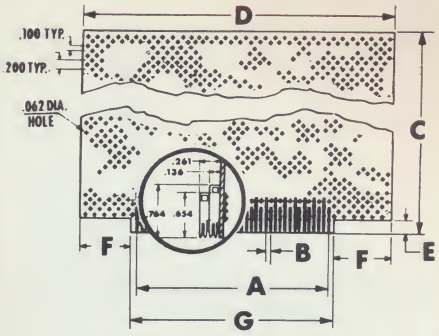


FIG. 2

AVAILABLE WITH

Recommended for use with

Cat. No.	Fig. No.	Material	No. of Contacts	No. of Eyelets	A	B	C	D	E	F	G	*Elco Type Receptacles
1944	1	Paper Epoxy	16	32	3.0	.200	6.5	4.5	—	—	—	5009-16-5-2-1
1945	1	Paper Epoxy	—	32	—	—	6.5	4.5	—	—	—	—
1946	1	Paper Epoxy	—	—	—	—	6.5	4.5	—	—	—	—
1947	1	Glass Epoxy	16	32	3.0	.200	6.5	4.5	—	—	—	5009-16-5-2-1
1948	1	Paper Epoxy	12	24	2.2	.200	4.5	3.0	—	—	—	5009-12-5-2-1
1949	1	Paper Epoxy	—	24	—	—	4.5	3.0	—	—	—	—
1950	1	Paper Epoxy	—	—	—	—	4.5	3.0	—	—	—	—
1951	1	Glass Epoxy	12	24	2.2	.200	4.5	3.0	—	—	—	5009-12-5-2-1
1952	1	Paper Epoxy	14	28	2.6	.200	4.5	3.0	—	—	—	5004-14-5-2-1
1953	1	Paper Epoxy	—	28	—	—	4.5	3.0	—	—	—	—
1954	1	Paper Epoxy	—	—	—	—	4.5	3.0	—	—	—	—
1955	1	Glass Epoxy	14	28	2.6	.200	4.5	3.0	—	—	—	5004-14-5-2-1
1956	1	Paper Epoxy	20	40	3.8	.200	3.0	4.5	—	—	—	5004-20-A-2-1
1957	1	Paper Epoxy	—	40	—	—	3.0	4.5	—	—	—	—
1958	1	Paper Epoxy	—	—	—	—	3.0	4.5	—	—	—	—
1959	1	Glass Epoxy	20	40	3.8	.200	3.0	4.5	—	—	—	5004-20-A-2-1
1960	2	Glass Epoxy	35	70	3.4	.100	6.5	4.5	.750	.397	3.71	7008-35-5-1-1
1961	2	Glass Epoxy	—	70	3.4	.100	6.5	4.5	.750	.397	3.71	—
1962	2	Glass Epoxy	—	—	—	—	6.5	4.5	.750	.397	3.71	—
1963	2	Paper Epoxy	35	70	3.4	.100	6.5	4.5	.750	.450	3.6	7001-35
1964	2	Paper Epoxy	—	70	3.4	.100	6.5	4.5	.750	.450	3.6	—
1965	2	Paper Epoxy	—	—	—	—	6.5	4.5	.750	.450	3.6	—
1966	2	Glass Epoxy	35	70	3.4	.100	6.5	4.5	.750	.450	3.6	7001-35

*KEYSTONE DOES NOT HANDLE ELCO RECEPTACLES — AVAILABLE FROM LOCAL DISTRIBUTORS ONLY

PUSH-IN TERMINALS

PUSH-IN TERMINALS For .062 & .093 Dia. Holes

Terminals are pressed into the holes of the board manually; or a low cost insertion tool can be supplied for use at the bench, in an arbor or drill press.

- QUICK & EASY TO INSTALL
- NO STAKING REQUIRED
- FOR PRODUCTION OR EXPERIMENTAL USE

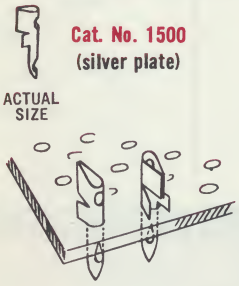
"FLEA" CLIP (For .062 Dia. Holes)

For subminiature applications where conventional terminals are too large or too costly. The design engineer will find them most useful; and the serviceman will need these for quick repairs of printed circuitry. Simply insert wire thru hole and it is held firmly by spring wipe action assuring continued positive contact.

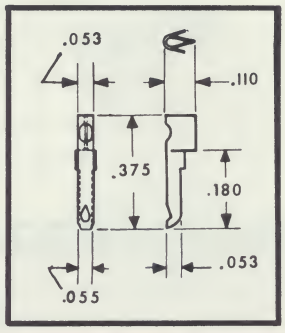
MATERIAL: .008 thick Beryllium Copper per QQ-C-533 and Heat Treated to 15N, 73-79.

FINISH: Silver Plate per QQ-S-365 type 2.

Insertion Tool Cat. No. 1322



Cat. No. 1500 (silver plate)



"IMP" TERMINAL (For .062 Dia. Holes)

The name implies the miniature characteristics of this terminal. It is only slightly larger than the "FLEA" clip. Excellent for point to point or feed thru wiring. Slot is serrated to grip transistor or heavier leads. Multiple connections are made quick and easy.

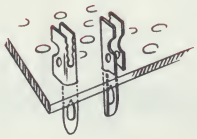
MATERIAL: .008 thick Beryllium Copper.

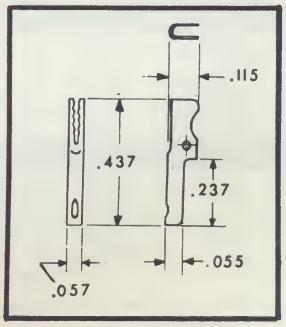
FINISH: Fused Tin Plate or Silver Plate.

Insertion Tool Cat. No. 1322

Cat. No. 1499-FT (fused tin plate)

Cat. No. 1499-SP (silver plate)



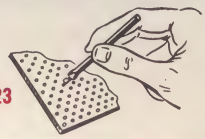


SOLDERLESS TERMINAL (For .093 Dia. Holes)

Our newly designed terminal for production or breadboarding use. Holds as many as 7 leads without soldering. A rugged, **spring action** precision stamped terminal.

MATERIAL: .015 Beryllium Copper.

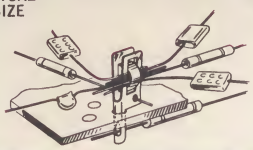
FINISH: Cadmium Plate per QQ-P-416 Class 2, Type 2 and Clear Irridite, or Silver Plate.

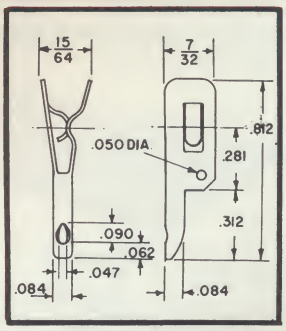


Insertion Tool Cat. No. 1323

Cat. No. 1498-CP (cadmium plate)

Cat. No. 1498-SP (silver plate)





MINIATURE TUBULAR TERMINALS (for .062-.067 diam. Hole)

- IDEAL FOR PRINTED CIRCUITRY
- TAPERED SECTION RETAINS WIRE LEADS
- MOUNT TRANSISTORS, RESISTORS, NEONS
- POSITIVE LOCKING IN HOLE — NO STAKING REQUIRED

Will firmly hold a wire in range of .010 to .050 diam.

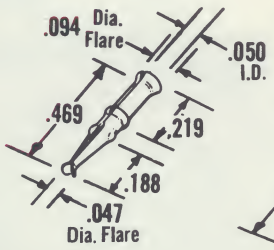


Fig. 1

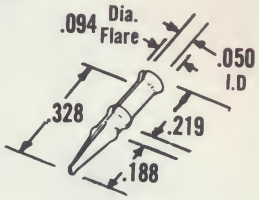
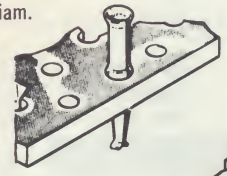
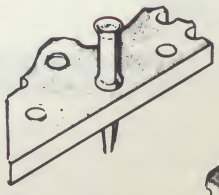
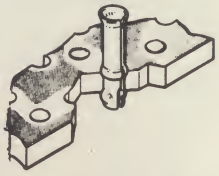


Fig. 2

Fig. 3







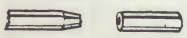
MATERIAL: .006 thick Brass, Precision Formed and Pre-Tinned.

These terminals are often used for transistor and Bi-Pin lamp sockets. Terminals snap into a .062-.067 diam. hole of a 1/16" thick insulator and are firmly held without the need of staking. Wire leads can be inserted from either end and retained. Terminals 1236 and 1237 have tapered socket spring forming that will hold a number of leads in position and allow multiple dip soldering.

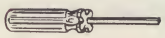
Terminals are pre-tinned for easy soldering.

INSERTION TOOL

For Arbor Press or similar reciprocating device.
Specify **CAT. NO. TL-11**



For Hand Insertion Tool.
Specify **CAT. NO. 1214**



TERMINALS

For 1/16" Thick Insulator

CAT. No.	FIG.
1236	1
1237	2
1238	3

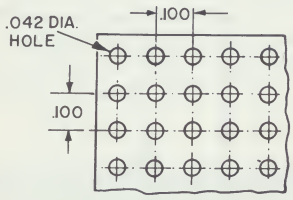
PRE-PUNCHED BOARDS AND MODULE SOCKETS

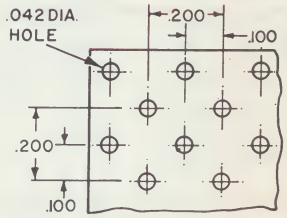
MICRO-MINIATURE KEYBOARDS WITH .042 DIA. HOLES

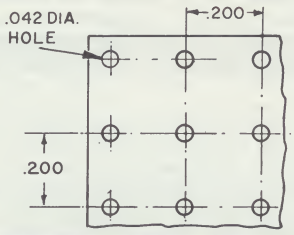
- FOR MODULE STACKS
- SMALLER PLUG-IN CARDS POSSIBLE
- PERMITS HIGHER COMPONENT DENSITY FOR SUBMINIATURE CIRCUITRY

MATERIAL GLASS EPOXY UNCLAD Mil-P-18177 G-10 (GEE) Temp. 300° F. Max.
GLASS EPOXY Copper Clad Mil-P-13949B (GE) Temp. 300° F Max.

TOLERANCE: Length and width overall dimension after fabrication Plus or Minus .015.







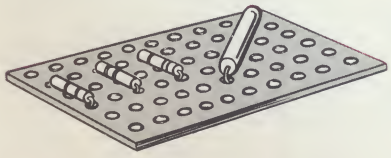
"P" PATTERN .042 HOLES .100 x .100			
Width & Length	No. Holes W & L	Glass Epoxy	Glass Epoxy Cop. Clad (1 Side)
1/32 THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	19x44	4225	4234
2x6	19x59	4226	4235
4½x6	44x59	4227	4236
6x17	59x169	4228	4237
3/64 THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	19x44	4229	4238
2x6	19x59	4230	4239
4½x6	44x59	4231	4240
6x17	59x169	4232	4241

"M" PATTERN .042 HOLES .100 x .200			
Width & Length	No. Holes W & L	Glass Epoxy	Glass Epoxy Cop. Clad (1 Side)
1/32 THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	9x22x2	4242	4250
2x6	9x29x2	4243	4251
4½x6	22x29x2	4244	4252
6x17	29x84x2	4245	4253
3/64 THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	9x22x2	4246	4254
2x6	9x29x2	4247	4255
4½x6	22x29x2	4248	4256
6x17	29x84x2	4249	4257

"J" PATTERN .042 HOLES .200 x .200			
Width & Length	No. Holes W & L	Glass Epoxy	Glass Epoxy Cop. Clad (1 Side)
1/32 THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	9x22	4258	4266
2x6	9x29	4259	4267
4½x6	22x29	4260	4268
6x17	29x84	4261	4269
3/64 THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	9x22	4262	4270
2x6	9x29	4263	4271
4½x6	22x29	4264	4272
6x17	29x84	4265	4273

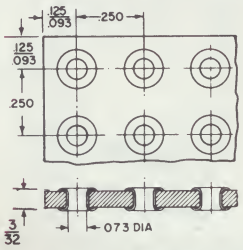
EYELET KEYBOARDS FOR MINIATURE CIRCUITRY

- Available from Stock.
- Construct Modules—Bridge Circuits—Printed Circuit Layout.
- Replaces Costly Terminal Board Assemblies.
- For Lab or Production Use.



Material: PBE XXXP Phenolic Mil-P-3115C.
Eyelets: MIL SPEC QQ-B-613
Finish: Tinned, Mil-P-14072, Type 221.

- EYELETS INSTALLED IN ALL HOLES
- ¼" SPACING IN BOTH DIRECTIONS

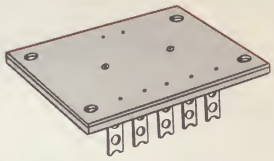


Material: 3/32" Thick PBE, Nat.

An essential building block that will assist the designer and engineer in planning and layout of electronic circuitry. Eyelets are tinned for easy soldering. Boards can be stored indefinitely and will retain soldering characteristics.

CAT. NO.	No. of Holes W & L	W	L	No. of Eyelets
4283	5x5	1¼	1¼	25
4284	6x10	1½	2½	60
4285	10x13	2½	3¼	130
4286	13x18	3¼	4½	234
4287	14x16	3½	4	224
4288	16x24	4	6	384

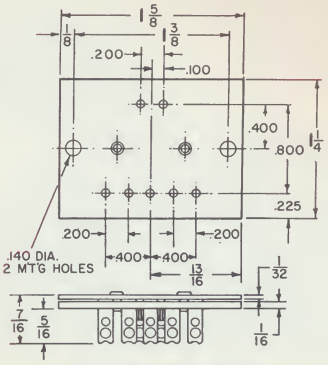
MODULE WAFER SOCKETS FOR .040 PINS



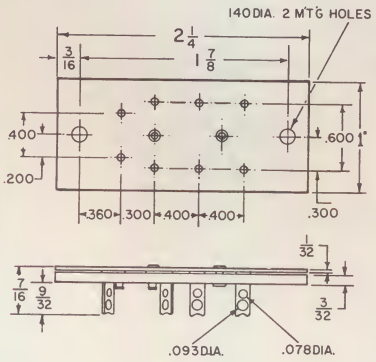
FOR **Most Standard Enscapulated Operational Amplifiers and Module Circuits**

MATERIAL: Glass Epoxy Mil-P-18177 type G-10
CONTACTS: Cat. No. 1240. Made of Brass, Cadmium Plated. See Page 34 for dimensional drawing and other contacts available.

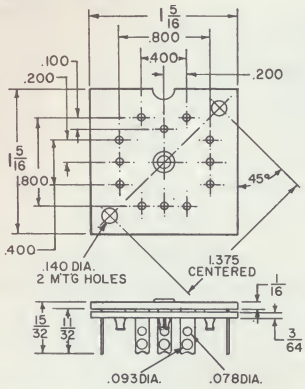
Precision drilled wafers hold contacts in perfect alignment. Insertion is easy and pins are grasped firmly.



CAT. NO. 1400



CAT. NO. 1401



MATERIAL: NEMA Grade XP Phenolic Wafers.

CAT. NO. 1402

STANDARDIZED PLUG-IN HOUSINGS

PLUG IN HOUSINGS

Enhance the appearance and give that professional look to your products using these molded housings. Ideally suited for packaging relays, logic packages, networks and miniature circuitry. Durable, lightweight covers that will withstand vibrations and rough usage. A most popular size metal cover is included in this listing of stock items.

HEADERS: Molded of G.P. black phenolic and fit standard sockets. Pins are Brass, Nickel Plated. Guide hole tapped 8-32 for terminal board mounting stud.

- Variety of molded materials
- Good chemical resistance
- Low water absorption

Housing with Octal Header & 4 Screws CAT. NO.	Housing Only CAT. NO.	Fig. No.	Type	Material	Color
660	670	1	Mini	Butyrate	Clear
661	671	1	Mini	Nylon	White
662	672	1	Mini	Polystyrene	Clear
641	645	1	Mini	Polystyrene	Opaque Black
642	646	1	Mini	Polystyrene	Transp. Red
663	673	2	Small	Butyrate	Clear
664	674	2	Small	Nylon	White
665	676	2	Small	Polystyrene	Clear
643	647	2	Small	Polystyrene	Opaque Black
644	648	2	Small	Polystyrene	Transp. Red
650	649	3	Large	Butyrate	Clear
668	679	3	Large	Polystyrene	Clear
677	666	3	Large	Polystyrene	Opaque Black
678	667	3	Large	Polystyrene	Transp. Red
639	640	4	Xtra-L'ge	Polystyrene	Clear
669	680	5	Small	Steel	Electro Tin Plate

MATERIAL CHARACTERISTICS:

POLYSTYRENE: For general purpose use where high impact strength is not required and temperature would not exceed 170° F.

BUTYRATE: 3 times the impact strength of Polystyrene and excellent electrical properties, use wherever temperatures of 210° F exist.

NYLON: Impact strength slightly less than Butyrate but recommended for use where temperatures are as high as 300° F.

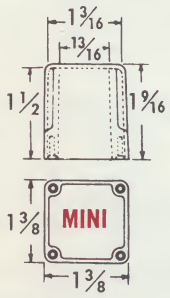


FIG. 1

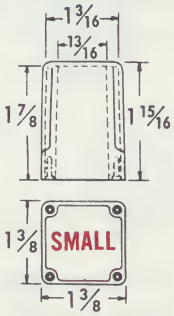
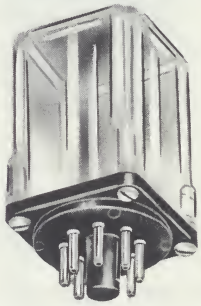


FIG. 2



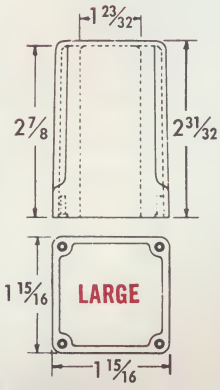


FIG. 3

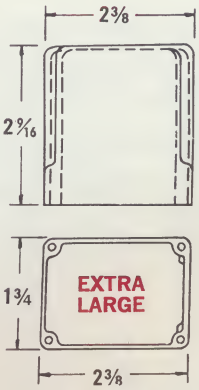


FIG. 4

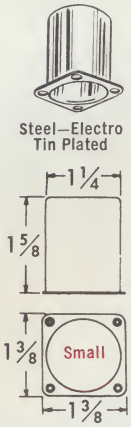
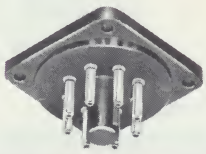


FIG. 5

HEADERS

HEADERS: Headers are available in two sizes and a variety of pin configurations that fit standard sockets. Molded of general purpose phenolic with brass nickel plated pins sturdily staked. Guide hole tapped 8-32 for terminal board mounting stud.



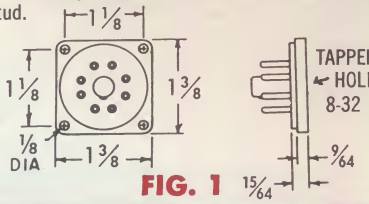


FIG. 1

AVAILABLE FROM STOCK

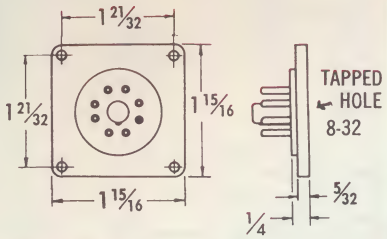


FIG. 2

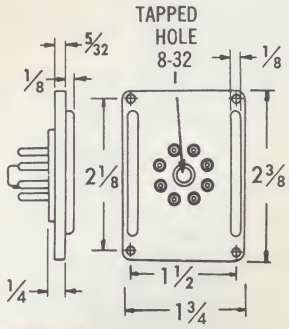


FIG. 3

Header only for Fig. 4 Case Above

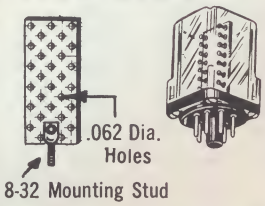
1 3/8 Sq. Headers for Mini & Small Housing (Fig. 1 Above) CAT. NO.	Pin Configuration	1 15/16 Sq. Headers for Large Housing (Fig. 2 Above) CAT. NO.	1 3/4 x 2 3/8 Headers for Extra Large Housing (Fig. 3 Above) CAT. NO.
681	Octal	685	690
682	Nine Pin	Not Available	Not Available
683	Eleven Pin	686	Not Available
684	Twenty Pin	687	691

SELF-TAPPING SCREWS

CAT. NO. 688—For miniature & small covers #4 x 5/16
CAT. NO. 689—For large covers #4 x 3/8

TERMINAL BOARDS (For Use with Above Housings)

THESE BOARDS ARE STOCKED IN XXXP PAPERBASE AND GLASS EPOXY MATERIAL. SPACING OF HOLES IS .100 and .200 ALTERNATES. AN 8-32 THREADED STUD IS FIRMLY EYELETTED TO THE BOARD AND IS EASILY ASSEMBLED INTO THE TAPPED HOLE OF THE HEADERS.



BOARD THICKNESS 1/16"

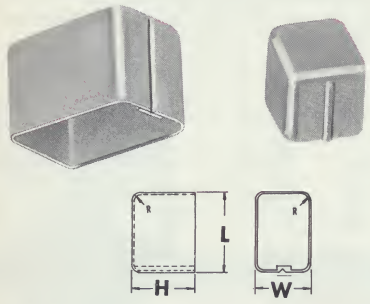
XXX PBE MIL-P-3115C Bakelite Cat. No.	Glass Epoxy G-10, GEE MIL-P-18177B Cat. No.	Size of Board with Stud	For Covers Listed Above
692	696	1 x 1 5/16	Miniature
693	697	1 1/8 x 1 3/4	Small
694	698	1 1/2 x 2 3/4	Large
695	699	1 1/8 x 1 7/16	Metal Case
637	638	1 5/16 x 2 3/8	Xtra Large

STANDARDIZED CONSTRUCTION BLOCKS

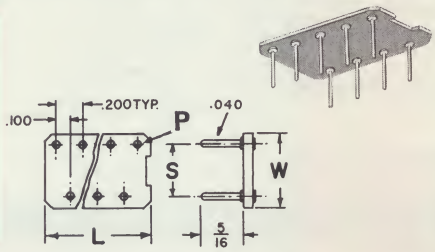
for • MODULES
• TRANSFORMERS

Choice of 8 POPULAR CASES — HEADERS and SOCKETS for Miniature and Subminiature circuits

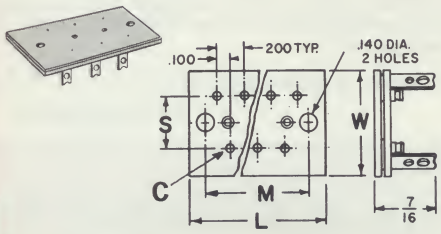
• ECONOMICAL • IMMEDIATE DELIVERY FROM STOCK • MAXIMUM DENSITY OF PACKAGING



You can assemble a Modular or Subminiature circuit at low cost and professional in appearance.



Allows you to approach the final concept of your design in the shortest space of time and least effort.



MOLDED DELRIN* PLASTIC CASES ◀ WITH ▶ **MATING HEADERS (Polarized)** ◀ AND ▶ **MATING SOCKETS (Polarized)**

Grey Color, Hi Impact cases suitable for circuits requiring encapsulation. Plastic will withstand 365° temp. or 185° F. continuous operation.
*Reg. TM by DuPont

Material is 1/16" thick Glass Epoxy MIL-P-18177B. Pins are Hollow Brass, Electro Tinned for easy soldering. They will accept a #20 size wire .200 spacing between pins.

Material is 1/16" thick Glass Epoxy MIL-P-18177B. Contacts are .012 thick Brass and Cadmium plated. Precision made to closest tolerances and mate with the headers perfectly.

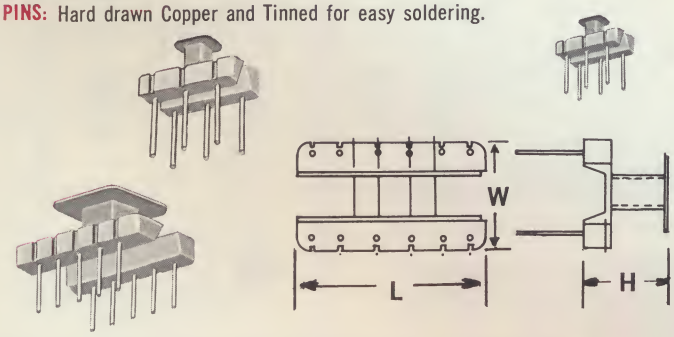
CASE CAT. NO.	W WIDTH	L LENGTH	H HEIGHT	HEADER CAT. NO.	W WIDTH	L LENGTH	S	P PINS EACH SIDE	SOCKET CAT. NO.	W	L	S	C No. of Contacts	Mtg. Holes M
4293	.359	.500	.405	4297	.300	.437	.187	2 & 1	4305	.500	.625	.187	2 & 1	Opposite Ends .390x437
4294	.562	.578	.578	4298	.500	.515	.187	2 & 1	4305	.500	.625	.187	2 & 1	
4295	.609	.859	.656	4299	.546	.781	.375	4 & 3	4307	.781	1.000	.375	4 & 3	.750
4296	.593	.984	.656	4300	.531	.937	.375	5 & 4	4308	.781	1.062	.375	5 & 4	.812
4289	.734	1.015	.531	4301	.687	.937	.500	5 & 4	4309	.922	1.062	.500	5 & 4	.812
4290	.734	1.015	.718	4301	.687	.937	.500	5 & 4	4309	.922	1.062	.500	5 & 4	.812
4291	.890	1.265	.843	4303	.843	1.203	.600	6 & 5	4311	1.062	1.421	.600	6 & 5	1.125
4292	1.250	1.687	1.281	4304	1.156	1.578	.812	7 & 6	4312	1.375	1.812	.812	7 & 6	1.500

* PRINTED CIRCUIT TRANSFORMER BOBBINS

Bobbins mate with above Cases. No warpage. No loose or deformed Pins. Pins withstand double dip or Iron soldering.

MATERIAL SPECS: Bobbins molded of Glass Reinforced (DAP) DIALLYL-PHYTHALATE MIL-T-27.

PINS: Hard drawn Copper and Tinned for easy soldering.



BOBBINS ONLY—Pin arrangements based on .050 centers or Multiples

CAT. NO.	H Height	L Length	W Width	No. Pins Each Side & Diam.	MATES WITH CASES
4313	.234	.438	.297	3 of .032	4293
4314	.439	.516	.500	3 of .032	4294
4315	.407	.781	.531	5 of .032	4295
4316	.407	.938	.531	5 of .032	4296
4317	.375	.938	.656	5 of .032	4289
4318	.547	.938	.656	5 of .032	4290
4319	.640	1.187	.812	5 of .047	4291
4320	.937	1.562	1.125	5 of .047	4292

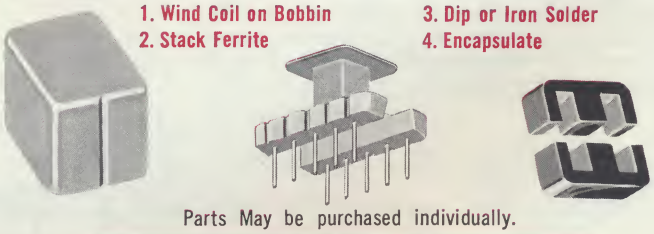
*Printed Circuit Bobbins are covered by U.S. Patents 3,174,673 and 3,215,964 and Patents Pending.

* PRINTED CIRCUIT TRANSFORMER KITS

A complete Packaged Kit consisting of Bobbin, Case and Ferrite Core.

Four Easy Steps to Complete and Assemble:

1. Wind Coil on Bobbin
2. Stack Ferrite
3. Dip or Iron Solder
4. Encapsulate



Parts May be purchased individually.

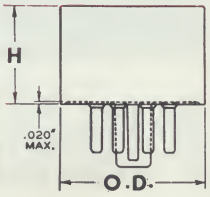
Complete Kit CAT. NO.	Case Only CAT. NO.	* Bobbin Only CAT. NO.	Ferrite Only CAT. NO.
4321	4293	4313	4330
4322	4295	4315	4331
4329	4296	4316	4335

OCTAL TUBE BASE SHELLS

MATE WITH ALL STANDARD OCTAL SOCKETS

- ENCAPSULATE CIRCUITS—1001 USES
- CONSTRUCT TEST ADAPTERS
- LOW COST • COMPLETELY ASSEMBLED

Black Molded Shell of General Purpose Phenolic per MIL-M-14CFG. 8 Brass Nickel Plated Pins securely staked to shell.



CAT. NO.	H	O.D.
4515	.850	1.250
4516	1.070	1.350

HOUSINGS—BANANA PLUG AND JACK STRIPS

- Suitable for test adaptors, modules, filters, etc.
- Low resistance Beryllium Copper spring plugs

BANANA PLUG IN MODULES

- Shielded or molded hi-impact Butyrate cover
- Mates with all standard patch board plugs

BANANA PLUG SPRINGS: One piece Beryllium Copper per QQ-C-533 and heat treated to 15 N, 73-79.

PLUG BODY: Brass QQ-626 Comp. 22½ H; silver plated, MIL-P-14072 per QQ S-365.

BAKELITE: Black per MIL-P-3115C, TYPE PBE.

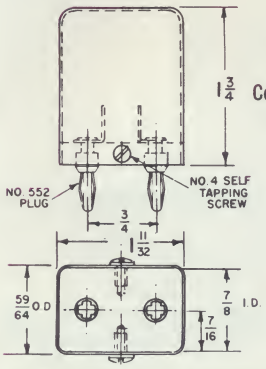
PLASTIC HOUSING: Molded of high impact clear Butyrate plastic will withstand temp. 210°F. Ample room for wiring or terminal board.

HEADER: Precision machined black bakelite which mounts flush to housing with self-tap screws. Solder lugs firmly staked to banana plugs.

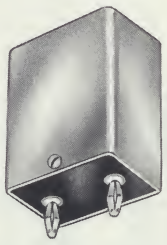
ALUMINUM HOUSING: For circuits requiring shielding. Banana plugs attached to ¼" thick bakelite and staked to solder lugs. Hole for cable entry can be supplied at small additional charge.

MODIFICATIONS: We welcome the opportunity to quote on variations of standard items.

ALUMINUM SHELL

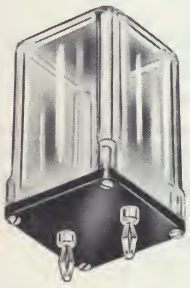


Cat. No. 659
Complete with header and 2 screws

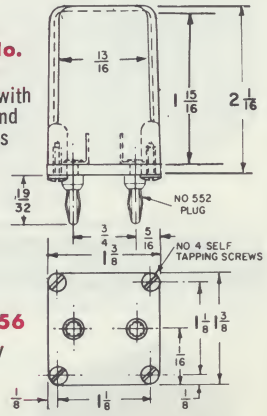


Cat. No. 657
Header only

PLASTIC HOUSING



Cat. No. 658
Complete with header and 4 screws

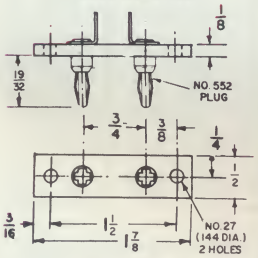


Cat. No. 656
Header only

BANANA PLUG AND JACK STRIP

3/4" Centers—Mate with all Stack-Up Plugs

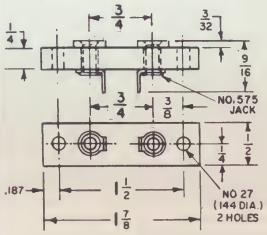
BANANA PLUG STRIP
Panel Mounting



Cat. No. 651

A much needed accessory for patch-cord boards and stack-up plugs. Low resistance banana plugs are spaced on ¾" centers, staked into ⅛" thick black bakelite and solder lugs.

JACK STRIP
Panel Mount Jack Strip

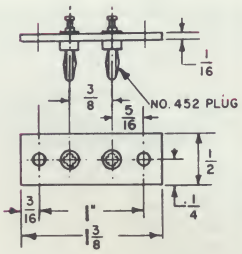


Cat. No. 653

These panel mounting strips mate with any ¾" spaced stack-up plug or individual patchcords. Silver plated jacks are staked into ¼" thick black bakelite with solder lugs. Multiples can be supplied in most instances without tooling or setup charges.

MINIATURE PLUGS AND JACK STRIPS

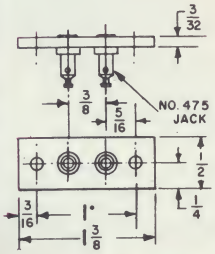
BANANA PLUG STRIP
3/8" Centers



Cat. No. 654

Same high electrical and mechanical efficiency as the standard series. Plugs made of Beryllium Copper and silver plated for low resistance and positive contact.

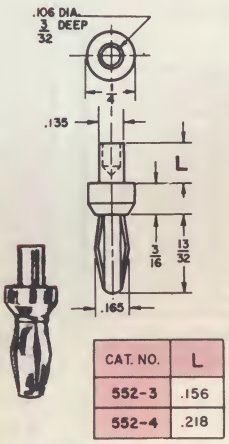
JACK STRIP
3/8" Centers
Panel Mounting



Cat. No. 655

Panel Mounting Ideal for use with miniature banana plug patchcord. Brass, silver plated jacks. Staked to 3/32" th'k. black bakelite.

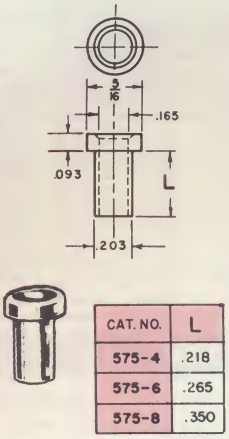
Cat. No. 552 PLUG



CAT. NO.	L
552-3	.156
552-4	.218

SPRING: Beryllium Copper
BODY: Brass, Silver Pl.

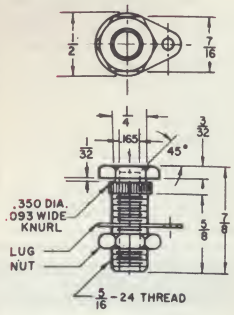
Cat. No. 575 JACK



CAT. NO.	L
575-4	.218
575-6	.265
575-8	.350

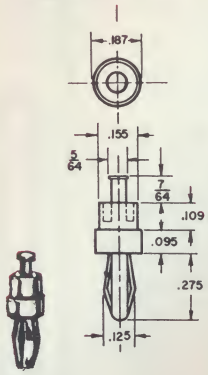
Brass, silver pl.

Cat. No. 675 JACK



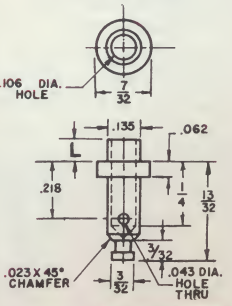
Brass, silver pl.

Cat. No. 452 PLUG



SPRING: Beryllium Copper
BODY: Brass, Silver Pl.

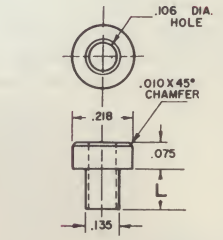
Cat. No. 475 JACK



CAT. NO.	L
475-2	.109
475-3	.140
475-4	.165

Brass, silver pl.

Cat. No. 476 JACK



CAT. NO.	L
476-2	.125
476-3	.165
476-4	.187

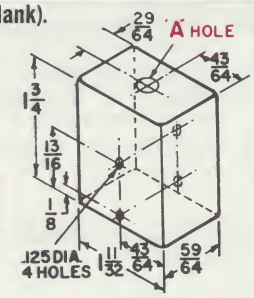
Brass, silver pl.

METAL HOUSINGS – ENCAPSULATION HOUSINGS – KITS

ALUMINUM UTILITY HOUSINGS

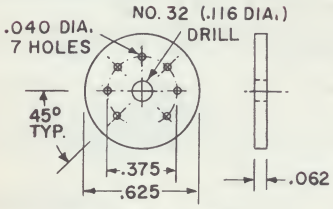
- Available from stock (pre-drilled or blank).
- For microphone connectors, jacks, plugs or a variety of components.

CAT. NO.	A Hole
4482	.250
4483	.312
4484	.375
4485	.500
4486	No Hole Drilled



.020 thick wall, seamless drawn aluminum. Grade 1100.
Caustic etched finish.

7-HOLE WAFER



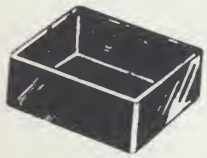
CAT. No. 1271

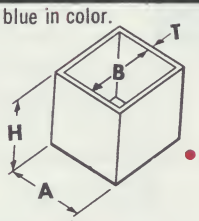
Material is **G-10 Glass Epoxy 1/16" thick** 5/8" O.D. with .116 dia. hole in center and 7- .040 holes (similar to 7-pin tube base spacings).

Standardized EPOXY ENCAPSULATION HOUSINGS

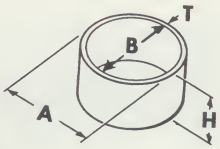
- Compatible with all encapsulation compounds.

Molded of high strength epoxy, deep blue in color.





- IMMEDIATE DELIVERY from stock.



Your choice of square or cylindrical cases in a range of popular sizes

SQUARE CASES

CAT. NO.	A	B	H	T
4416	.500 x .500	.440	.750	.040
4417	.750 x .750	.685	1.000	.040
4418	1.000 x 1.000	.910	1.500	.050
4419	1.250 x 1.250	1.150	1.750	.050
4420	1.500 x 1.500	1.400	2.000	.050

CYLINDRICAL CASES

CAT. NO.	A	B	H	T
4421	.500	.434	.875	.032
4422	.625	.552	.875	.036
4423	.750	.677	1.000	.036
4424	.875	.802	1.000	.036
4425	1.000	.927	1.250	.036
4426	1.250	1.177	1.250	.036
4427	1.500	1.427	1.500	.036
4428	1.750	1.677	1.750	.036

PROTOTYPE KIT

An essential "Do It Yourself" building block for experimental or production runs

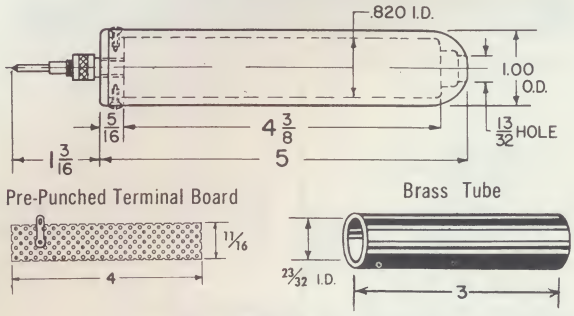
For construction of 1/16" and 3/32" thick terminal boards. This is the least expensive way to purchase a complete assortment of basic materials and staking tools needed. Ideal for experimental or short production runs. SAVE COSTLY TOOLING AND SETUP CHARGES. Kit consists of 1/16" and 3/32" bakelite, blank and pre-punched boards. Assortment of hardware such as eyelets, terminals, brackets, bushings and push-in terminals. A complete terminal staking tool kit and instructions.

CAT. NO. 1723

No. 1810 TEST PROBE KIT

- PRECISION MOLDED
- EASILY BUILT
- LOW COST
- STURDY

A quality, durable accessory for Signal Generators VTVM, Oscilloscopes etc., can be built by using the No. 1810 Test Probe Kit. It is designed to contain circuitry required for Signal Tracers, Demodulator, Rectifying and Isolation Probes. Easily assembled.



CAT. No. 1810 — **KIT CONSISTS OF:** One each (unassembled) Black Hi-Impact Plastic Handle, Black Phenolic Cap, Pre-Punched Terminal Board and Terminals (Push-In Type), Brass Shield, Senior Solderless Brass N. P. and Screws for fastening Cap to Handle.

CAT. No. 1811 — **KIT CONSISTS OF:** One each (unassembled) Probe Handle and Cap with Solderless Phone Tip only. (Less Terminal Board, Terminals and Brass Tube.)

STANDARDIZED PLUG-IN METAL HOUSINGS—ALUMINUM AND STEEL

KEYSTONE ELECTRONICS CORP. DESIGNERS MANUFACTURERS NEW YORK, N.Y. 10012

A variety of metal housings suitable for shielding electronic circuits.

PRE-FABRICATED • COMPACT • ECONOMICAL • EASY TO ASSEMBLE

MODIFICATIONS: Additional holes added or special finishes. Prompt quotations rendered.

ROUND ALUMINUM HOUSINGS

WITH OR WITHOUT HEADERS

.020 WALL DRAWN SEAMLESS CANS

CAUSTIC ETCHED FINISH—Aluminum Grade 1100, Fed. Spec. QQ-A-561.

Housing Complete with Header & Screws		Header Supplied	Housing & Cover Less Header		Dimensions		Terminal Board Specify	
CAT. NO.	Fig.	Type	CAT. NO.	Fig.	D	H	CAT. NO.	Fig.
4350	1	7 Pin	*4361	4	.742	2	4450	12
4351	1	9 Pin	*4362	4	.793	2	4451	12
4352	1	Octal	*4363	4	1.218	2	4452	12
4353	1	Octal	*4364	4	1.218	2½	4453	12
4354	1	Octal	*4365	4	1.218	3	4454	12
4355	2	Octal	4366	5	1.453	2	4455	12
4356	2	Octal	4367	5	1.453	2½	4456	12
4357	2	Octal	4368	5	1.453	3	4457	12
4358	2	Octal	4369	5	2.100	2	4458	13
4359	2	Octal	4370	5	2.100	2½	4459	13
4360	2	Octal	4371	5	2.100	3	4460	13

* Base cover not required.

SQUARE & RECTANGULAR HOUSINGS

#4372-4373-4374 are Square Aluminum .020 wall, and caustic etched.
#4375 is a Square Steel can .019 wall, and Cadmium Plated.
#4376 is a Rectangular Steel can .031 wall, and Cadmium Plated.

Housing Complete with Octal Header & Screws			Housing & Cover Less Header		Dimensions		Terminal Board Specify	
CAT. NO.	Fig.	Material	CAT. NO.	Fig.	D	H	CAT. NO.	Fig.
4372	3	Alum.-Sq.	4377	6	1 750	2	4458	13
4373	3	Alum.-Sq.	4378	6	1.750	2½	4459	13
4374	3	Alum.-Sq.	4379	6	1.750	3	4460	13
4375	3	Steel Sq.	4380	6	1.670	2½	4459	13
4376	—	St'l Rect.	4381	2.078 x 2.297 x 3⅛			4460	13

PLUG-IN HEADERS — 7 Pin, 9 Pin & Octal

Molded Thermosetting Black Plastic MIL-M-14CFG.

CAT. NO.	Fig.	Pin Configuration	Dimensions			Used in Fig.	Use Term. Bd. Type Fig.
			D	H	S		
4461	7	7 Pin	.605	.203	—	1	12
4462	8	9 Pin	.730	.218	—	1	12
4463	9	Octal	1.156	.281	—	1	12
4464	10	Octal	1.500	.312	—	2	12
4465	10	Octal	2.171	.312	1.600	2	13
4466	11	Octal	1.700	.255	1.600	3	13
4467	11	Octal	1.625	.255	1.600	3	13
4468	11	Octal	1.975x2.225x.255H		1.600	3	13

TERMINAL BOARDS for Above

CAT. NO.	Fig.	Size W & H	PATTERN OF THESE BOARDS
4450	12	.593 x 1.50	KEYSTONE "G" PATTERN .100 Grid Alternates .062 diam. holes
4451	12	.625 x 1.50	
4452	12	1.125 x 1.59	
4453	12	1.125 x 2.0	
4454	12	1.125 x 2.50	
4455	12	1.375 x 1.50	
4456	12	1.375 x 2.0	
4457	12	1.375 x 2.50	
4458	13	1.875 x 1.750	KEYSTONE "A" PATTERN .265 x .265 C to C .093 diam. holes
4459	13	1.875 x 2.250	
4460	13	1.875 x 2.750	

SUPPLIED COMPLETE: Housing—Header and Screws

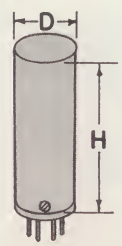


FIG. 1

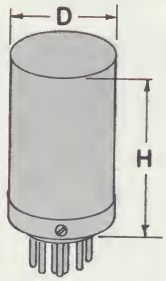
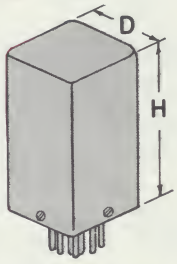


FIG. 2



OCTAL PLUG

FIG. 3

Base cover not required. Header slips into can. Insulated liner for inside of can is supplied.

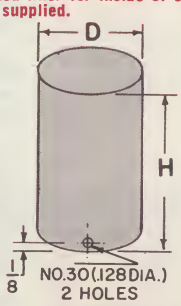


FIG. 4

Blank housings supplied with base cover. Holes punched .125 and accept #4 sheet metal screws.

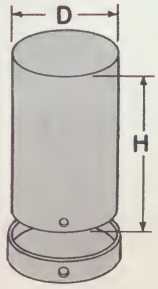


FIG. 5

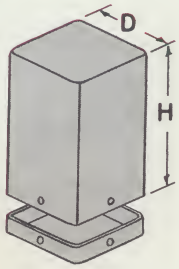


FIG. 6

MOLDED HEADERS

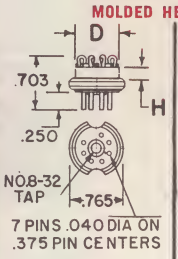


FIG. 7

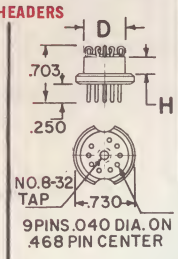


FIG. 8

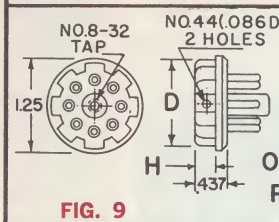


FIG. 9

Octal Header staked to round aluminum cover.

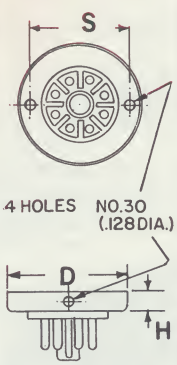


FIG. 10

Octal Header staked to square or rect. covers.

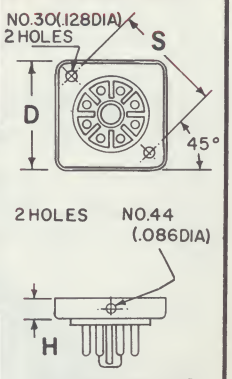


FIG. 11

Phenolic PBE grade terminal boards, used with Fig. 7, 8 & 9 Headers.

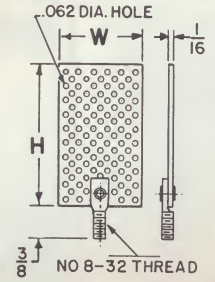


FIG. 12

Phenolic PBE grade terminal boards, used with Fig. 10 & 11 Headers. Useful for other applications.

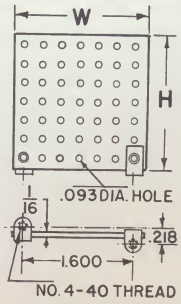
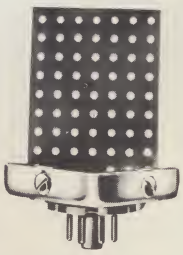


FIG. 13



MATERIALS AND ACCESSORIES

ALL-PURPOSE HAND PUNCH

for METAL, PLASTICS or MASONITE

- Equipped with Adjustable Gauge
- 1¼" Depth of Throat
- Replace Innumerable Drill Press Operations

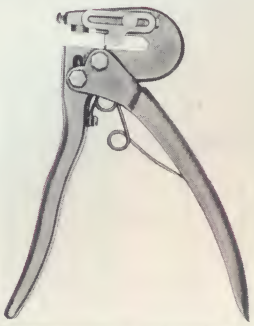
Uses: As a Nibbler — Shears Eyelets — Hole Punch for Sheet Material or Tubing.

Anyone can punch sharp, burr-free holes in a variety of materials to 1/16" thick untempered metal, 3/32" phenolic, 1/4" masonite. Interchangeable die sets from 1/16" dia. in increments of 1/32" with largest die set of 1/4" diam. Punches tubing as small as 3/4" diam. Powerful leverage requires little effort to operate. Shears eyelets and leaves clear undamaged hole.

INDIVIDUAL DIE SETS

Consists of Top and Bottom Tool	
CAT. NO.	DIE SET For Hole
1331	1/16
1332	.072
1333	3/32
1334	1/8
1335	5/32
1336	3/16
1337	7/32
1338	1/4

HAND PUNCH ONLY
CAT. NO. 1330



PHENOLIC INSTRUMENT BOXES

- For General Purpose Use
- Sturdy Construction
- .125 Thick Walls—Molded Glossy Black Phenolic MIL-M-14, CFG.

Your Choice of 5 Most Popular Boxes with Flush Mounting Aluminum or Phenolic Panels.

BOXES: Precision molded with rounded outside corners, and 6/32 x 3/16" deep threaded Brass inserts imbedded in each corner.

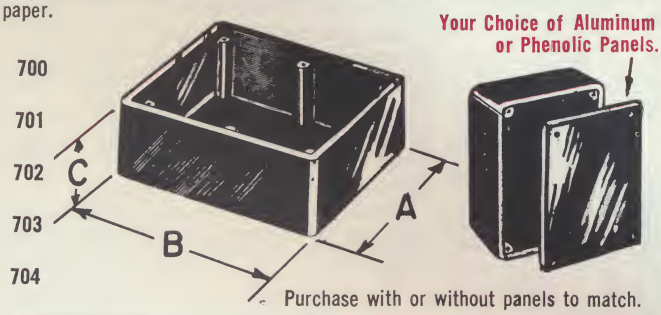
PANELS: Mount flush inside of Case, holes drilled in panel positioned for the inserts.

PHENOLIC PANEL: 3/32" thick glossy black MIL-P-3115 C.

ALUMINUM PANEL: .065 thick, #5052-H34 per QQ 318 C.

Bright finished surface covered with an easily removed pressure sensitive paper.

Your Choice of Aluminum or Phenolic Panels.



Purchase with or without panels to match.

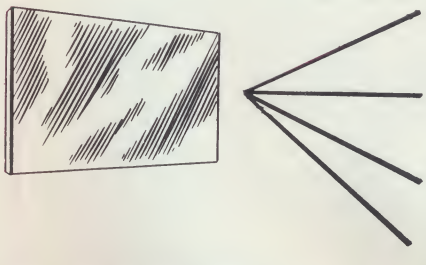
Case Only CAT. NO.	A	B	C	Black Phenolic Panel Only CAT. NO.	Aluminum Panel Only CAT. NO.
703	2⅞	3 15/16	1 7/16	2042	2044
704	3 1/16	5⅞	2¼	2043	2045
700	3¾	6¼	2	2037	2046
701	5¼	6¾	2 5/16	2038	2047
702	7⅜	8⅜	3	2039	2048

#703 and 704 has 4-40 tapped hole in each corner — no brass insert.

STANDARD LAMINATED PHENOLIC MATERIAL

- RANGE OF SIZES
- CERTIFIED MATERIAL
- SPECIAL SIZES CUT TO ORDER

CHOICE OF —



The finest grade laminated phenolic sheets we use in our production fabrication are available to you in a range of standard sizes or special sizes cut to order; and in a variety of types.

NEMA GRADE XXXP-MIL-P-3115C, paper base electrical-color natural. Most commonly used for panels and terminal boards. Excellent electrical grade and dimensional stability. Max. operating temp. continuous 250 deg. F.

NEMA GRADE G-10, MIL-P-18177B-GEE, color green **GLASS CLOTH EPOXY.** Superior chemical resistance, excellent mechanical and electrical properties. Max. operating temp. continuous 300 deg. F.

COPPER CLAD LAMINATES, XXXP MIL-P-13949 TYPE PP and **GLASS EPOXY MIL-P-13949B TYPE FL-GE,** are used mainly for printed circuitry. The copper foil serves as the conductor and the laminate provides the insulating support. 2-ounce copper foil is laminated to one or both sides of the insulator. **We catalog both types in XXXP and G-10.**

Fiberglass Reinforced Polyester NEMA Grade.
GPO-1 with a class 155°C (300°F) rating. Color is tan. Excellent mechanical and electrical properties. Fabricates similar to phenolic and can be punched cold.

Size Width & Length	XXXP Natural	Glass Epoxy	XXXP Cop. Clad (1 Side)	XXXP Cop. Clad (2 Sides)	Glass Epoxy Cop. Clad (1 Side)	Glass Epoxy Cop. Clad (2 Sides)	Fiber-glass Polyester
1/16" THICK MATERIALS							
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
5/16 x 7 13/16	2006	2022	—	—	—	—	2304
¾ x 7 13/16	2020	2023	—	—	—	—	2305
1 x 7 13/16	2021	2024	—	—	—	—	2306
2 x 4½	1970	1978	1985	1992	1999	2013	2307
2¼ x 3	1971	1979	1986	1993	2007	2014	2308
3 x 4½	1972	1980	1987	1994	2008	2015	2309
4½ x 6½	1973	1981	1988	1995	2009	2016	2310
4½ x 8½	1974	1982	1989	1996	2010	2017	2311
8½ x 17	1975	1983	1990	1997	2011	2018	2312
9 x 12	1976	1984	1991	1998	2012	2019	2313
3/32" THICK MATERIALS							
	Cat. No.	Cat. No.					Cat. No.
½ x 13⅛	2025	2031	NOT SUPPLIED IN THESE TYPES				2314
1 3/16 x 13⅛	2026	2032					2315
1½ x 13⅛	2027	2033					2316
2 x 13⅛	2028	2034					2317
2½ x 13⅛	2029	2035					2318
3 x 13⅛	2030	2036					2319

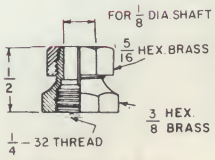
DIODE CLIPS AND BOARDS – SHAFTLOCKS – HARDWARE

KEYSTONE ELECTRONICS CORP. · NEW YORK, N.Y. 10012 · DESIGNERS MANUFACTURERS

SHAFT LOCKS

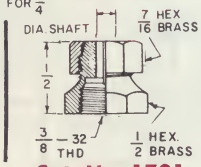
For 1/8" and 1/4" dia. shafts. Turn of nut, locks critical control settings securely. Made of BRASS per QQ-B-626, Comp. 22, 1/2 hard and NICKEL PLATED per QQ-N-290.

1/8" SHAFT



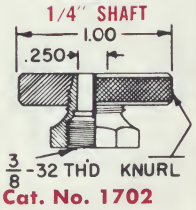
Cat. No. 1700

1/4" SHAFT



Cat. No. 1701

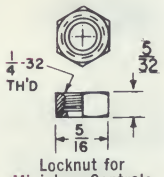
1/4" SHAFT



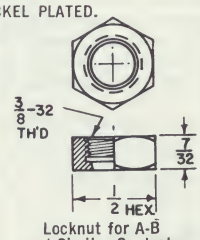
Cat. No. 1702

HEX LOCKNUTS (Internal Taper)

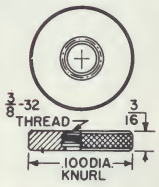
Provides dependable holding of critical control settings when nut is tightened.
Made of BRASS and NICKEL PLATED.



Locknut for Miniature Controls
Cat. No. 1497



Locknut for A-B and Similar Controls
Cat. No. 1455



Nut only as used with 1702 Shaftlock
Cat. No. 1703

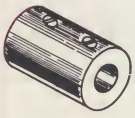
PRECISION MACHINED NUTS

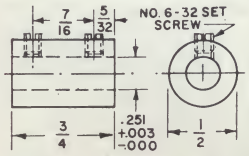
for Volume Controls, Switches, Capacitors, Tip Jacks, etc.
Material: Brass All are Nickel Plated.

CAT. NO.	FOR	DIMENSIONS	MAT.
1449	Mini. Control	(1/4-32) x (5/16 Hex) x (5/64" thick)	Brass
1456	Vol. Control	(3/8-32) x (1/2 Hex) x (3/32" thick)	Brass
1489	Vol. Control	12-32 x (5/16 Hex) x (5/64" thick)	Brass
1458	Switch	(15-32) x (9/16 Hex) x (5/64" thick)	Brass
1459	Switch Ring	(15-32) x (5/8 Knurled) x (1/16" thick)	Brass
1471	Capacitor	(6-40) x (5/16 Hex) x (5/64" thick)	Brass
1472	Filter	(5/16-32) x (3/8 Hex) x (3/32" thick)	Brass
1473	Mini. Control	(10-32) x (1/4 Hex) x (3/32" thick)	Brass

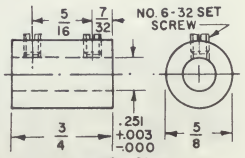
1/4"-1/4" SHAFT COUPLINGS

Two set screws hold shaft securely. Made of BRASS and NICKEL PLATED, or BAKELITE.





Brass
Cat. No. 1453



Bakelite
Cat. No. 1470

DIODE MOUNTING BOARDS AND CLIPS

• STURDY • FIRM HOLDING **USES:** For Germanium Diodes and Junction Rectifiers • ECONOMICAL • TROUBLE-FREE

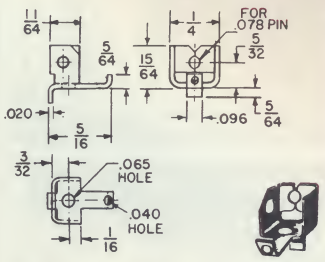
DIODE CLIPS: Made of Spring Tempered Phosphor Bronze MIL-B-892 available from stock either Cadmium or Silver plated.

NOTE: Holders on this page are assembled with cadmium plated clips only.
Silver plated clips will be supplied on special order only at additional cost. Prompt quotations rendered.

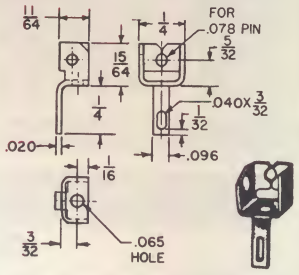
Standard diode clips offer a compact means for support and connection of crystal diodes. Diodes can be easily removed and reinserted without increase of contact resistance. Will withstand shock and vibration.

MODIFICATIONS: Other materials of your choice supplied. Marking and other types of plating added.

For Germanium Diodes for leads from .065 to .105 diam.



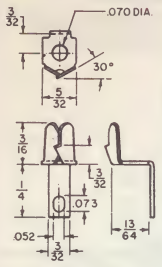
CAT. No. 1414 CP is Cadmium Plated.
CAT. No. 1414 SP is Silver Plated.



CAT. No. 1415 CP is Cadmium Plated.
CAT. No. 1415 SP is Silver Plated.

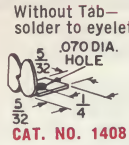
New "Y" Clip will firmly hold a wire in range of .010 to .050 diam.

Positive contact. 3 types available.



CAT. NO. 1409

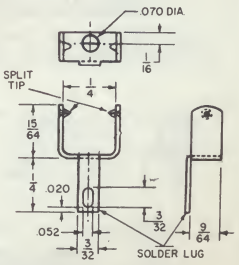
Without Tab— solder to eyelet



CAT. NO. 1408

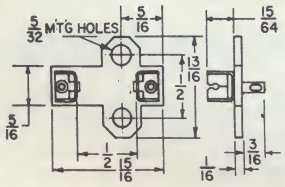
With Tab— Hole for wire

CAT. NO. 1412



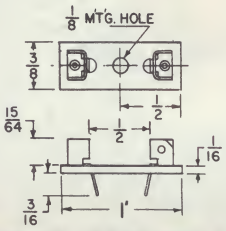
CAT. No. 1407

BAKELITE MATERIAL: 1/16" thick natural color bakelite grade PBE-P Mil Spec 3115B.



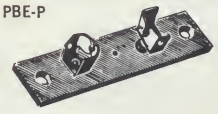
Board with 1415 CP clips (Bottom Solder Tab). Specify **CAT. No. 1422.**

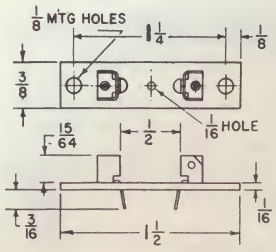
Board with 1414 CP clips (on special order only).



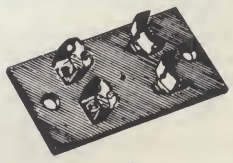
Board with 1415 CP clips (Bottom Solder Tab). Specify **CAT. No. 1420.**

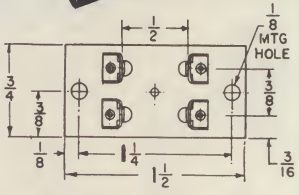
Board with 1414 CP clips (Top Solder Tab). Specify **CAT. No. 1411.**





Board with 1415 CP clips Specify **CAT. No. 1410**





Board with 1415 CP clips (Bottom Solder Tab). Specify **CAT. No. 1427.**

Board with 1414 CP clips (Top Solder Tab). Specify **CAT. No. 1417.**

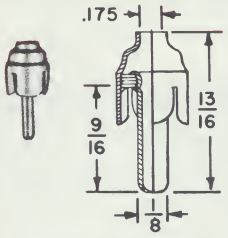
PHONO PLUGS AND JACKS – MIKE CONNECTORS

All have 1/8" diam. pins and mate with all standard phono jacks.

STANDARDIZED PHONO-PLUGS

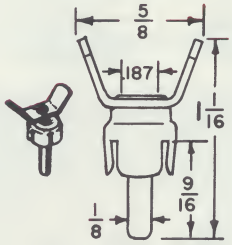
For Record Players—Recording and Reproducing Equipment.

Conventional Type



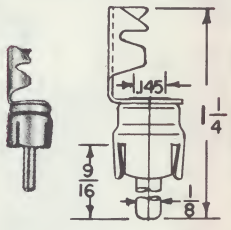
CAT. NO. 561

Finger Grip



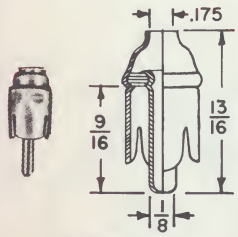
CAT. NO. 564

Strain Relief Lug Crimps to Wire Insulation



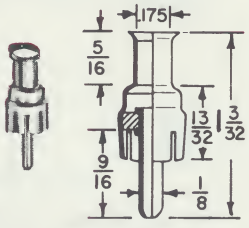
CAT. NO. 565

Longer Skirt for Better Grip



CAT. NO. 566

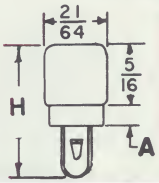
Crimp or Solder Type. Extra Long Handles



CAT. NO. 567

STANDARIZED PHONO JACKS AND MICROPHONE CONNECTORS

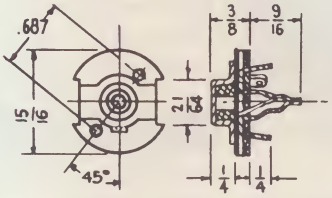
Rivet type—mounts in .296 dam. Hole.
Available for material 1/16, 3/32 or 1/8 thick
Mate with above 1/8" diam. Pins



CAT. NO.	A	H	For Insulator
568	.078	.703	1/16"
569	.109	.812	3/32"
570	.140	.812	1/8"

The No. 562 Jack has the same construction as the No. 560 Phono Jack, but, in addition, has an extra element which permits a circuit to be broken simply by the insertion of a phono plug. Mounting holes are for 6-32 screws, 11/16 between centers. Top plate is grounded.

CAT. NO. 560
Phono Jack

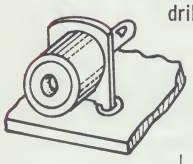


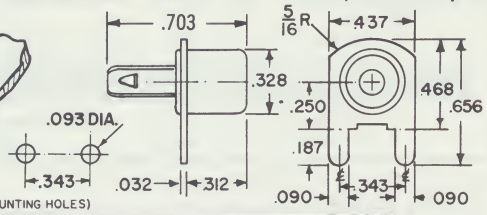
562

CAT NO. 562
Phono Circuit Breaking Jack

PRINTED CIRCUIT PHONO JACK

Mounted on bracket ready for insertion into pre-drilled holes. Bracket is made of **Steel, Hot Tin Dip**

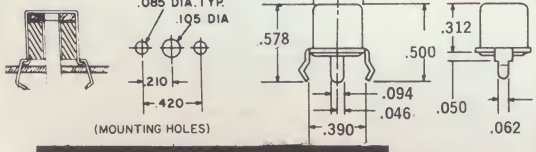




CAT. NO. 571

PRINTED CIRCUIT PHONO JACK

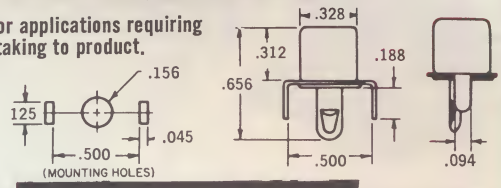
3 hole mounted — snaps into holes and firmly held. No staking required.



CAT. NO. 572

PRINTED CIRCUIT JACK

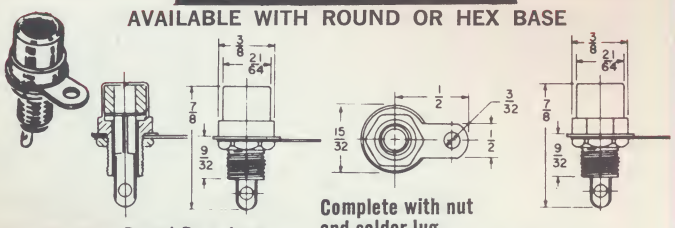
For applications requiring staking to product.



CAT. NO. 573

PANEL MOUNT JACK

AVAILABLE WITH ROUND OR HEX BASE

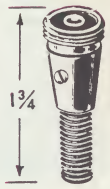


Complete with nut and solder lug.

CAT. NO. 574—Round Base type.
CAT. NO. 576—Hex Base type.

Mounts on top of panel in .296 diam. hole.

MICROPHONE CONNECTOR



Designed for use with single conductor microphone cable with a max. diameter 3/16". Rugged Brass Body Nickel Plated, Steel Spring Cad. Pl., Coupling ring of the No. 509 has 5/8-27 thread and is removable. The No. 509 mates with No. 500 also our No. 505 & No. 507.

CAT NO. 500
Male Connector

CAT NO. 509
Female Connector

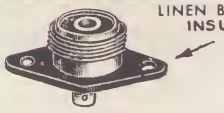
MALE CHASSIS CONNECTOR

Open Circuit Male

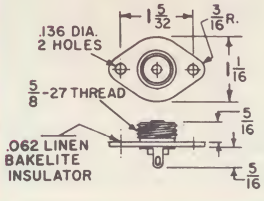
This microphone connector is used on chassis. Made of nickel plated brass. The thread is 5/8-27 and 3/8" hole required for mounting. Supplied with insulating washers, soldering lug and nut.

505 Male Chassis Connector

MALE CHASSIS CONNECTOR



Open Circuit Male



An open circuit type connector used on amplifiers or wherever the metal section of the connector must be isolated from the metal chassis. The brass nickel plated connector is staked to a linen bakelite plate and is threaded 5/8-27 which accommodates standard female mike connections.

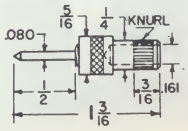
CAT. NO.
507 Male Chassis Connector

TEST PRODS AND TIPS

SOLDERLESS PHONE TIPS

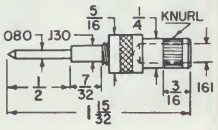
FORCE-FIT TYPE
(knurled end)

Cat. No. 1680—Junior



The Junior and Senior Tips are machined of brass and nickel plated. They are easily attached to a wire without soldering. A tightening of the knurled nut is all that is necessary to grip and hold the wire tightly.

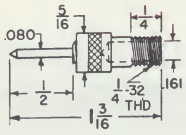
Cat. No. 1690—Senior



1/4—32 (threaded end)
Junior Solderless

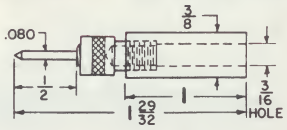
Metal Tip only

Cat. No. 1681—Junior



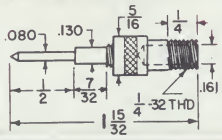
Handle and tip

Cat. No. 1670 -RED Cat. No. 1671 BLACK

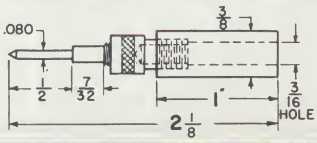


1/4—32 (threaded end)
Senior Solderless

Cat. No. 1691—Senior



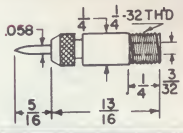
Cat. No. 1660 -RED Cat. No. 1661-BLACK

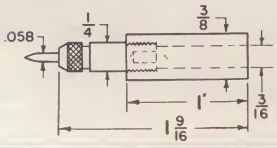


PHONO NEEDLE CHUCK TIP

Chuck is removable for easy replacement. Needle pierces plating or corrosion for positive reading.

Cat. No. 3014





Cat. No. 3015
RED handle and tip

Cat. No. 3016
BLACK handle and tip

STANDARDIZED TEST PROD HANDLES

Fig. 1 Handle —with tip # 3022-20

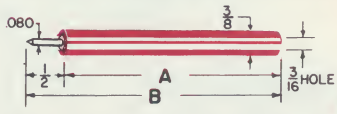


Fig. 2 Handle —with tip # 1691

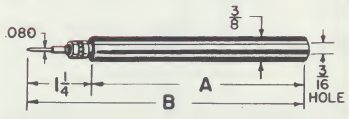


Fig. 3 Handle —with tip # 3014

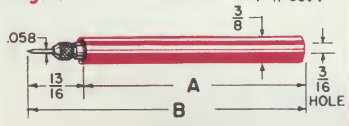
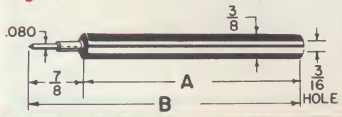


Fig. 4 Handle —with tip #3021



HANDLES: Are molded butyrate, Mil-L-P 349A type 3, class MS

Cat. No.	Fig. No.	Handles Only Color	"A" Dim. Inches	"B" Overall Length Inches
1840	2	Red	4	5¼
1841		Black	4	5¼
1842	2	Red	5½	6¾
1843		Black	5½	6¾
1849	3	Red	4	5¼
1850		Black	4	5¼
1851	3	Red	5½	6¾
1852		Black	5½	6¾
1860	4	Red	4	5¼
1861		Black	4	5¼
1862	4	Red	5½	6¾
1863		Black	5½	6¾
1898	1	Red	4	6
1900		Black	4	6

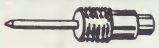
OTHER TIPS AND HANDLE COMBINATIONS AVAILABLE UPON REQUEST

TIPS: BRASS MIL SPEC. QQ-B-626A COMP. 22—½ HARD. NICKEL PLATED

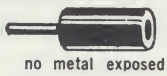
RATING: 12 Amps AC for 10°C Temp. rise, continuous duty.

HANDLE: Molded plastic in colors RED or BLACK MIL-P-14 CFG. 3/8" O.D. x 3/16" I.D.

STREAMLINE PHONE TIPS



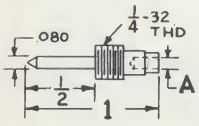
nickel plated brass with exceptionally large well for soldering, threaded for easy assembly in handle. Fits standard phone tip jack.

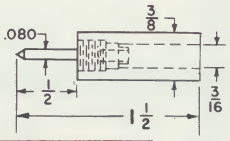


no metal exposed

Cat. No.	A
3022-12	.128
3022-20	.093

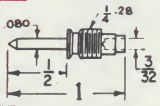
Cat. No. 1615 Handle Red
Cat. No. 1616 Handle Black



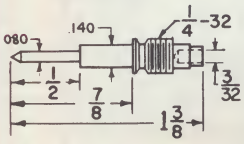


These phone tips are designed to be threaded into insulating handles. A minimum of metal is exposed when inserted into a phone tip jack. Connection is made by soldering.

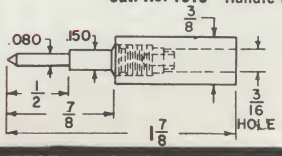
Cat. No. 3020



Cat. No. 3021

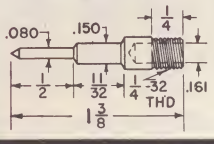


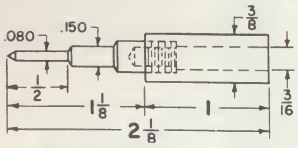
Cat. No. 1617 Handle Red
Cat. No. 1618 Handle Black



HEAVY DUTY TEST PRODS

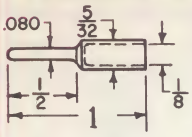
Cat. No. 3019





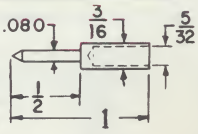
Cat. No. 3018
Specify: RED or BLACK

STANDARD PHONE TIPS



Cat. No. 1600

The ideal replacement tip for headset, speaker or extension cords. The tip is 1" long, brass, nickel plated. The No. 1601 Phone Tip is made to accommodate heavier wire than that of standard phone tips.

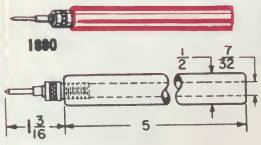


Cat. No. 1601

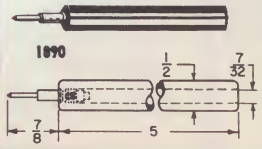
INDUSTRIAL TEST PRODS ½" DIA.

½" DIA. RED AND BLACK ETHYL CELLULOSE

Handle —with tip # 1691



Handle —with tip # 3021



A very heavy and rugged test prod ideally suited for the electrical appliance, motor trade and wherever water, oils, grease, acid or alkalis are encountered. Available in black or red Ethyl Cellulose with standardized solderless or Streamline Sr. phone tips which thread into the handles.

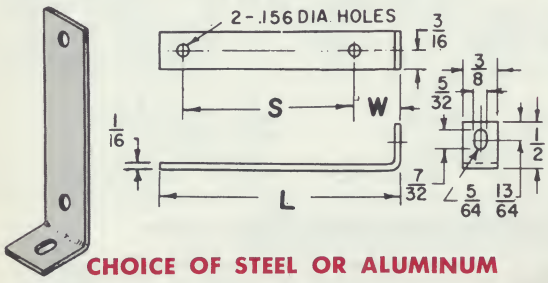
CAT NO.	Specify: RED or BLACK	LENGTH
1880	Red Sr. Solderless tip	5"
1880	Black Sr. Solderless tip	5"
1890	Red Sr. Streamline Tip	5"
1890	Black Sr. Streamline tip	5"

STANDARDIZED BRACKETS

AVAILABLE FROM STOCK

BRACKETS FOR STANDARDIZED BOARDS

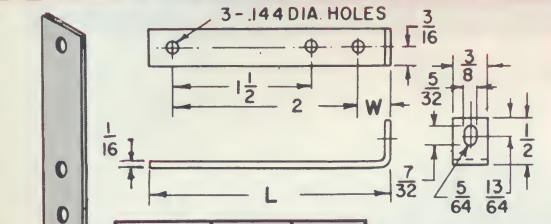
Originally designed for our line of standardized terminal boards; these brackets will find many uses for a variety of applications. Available in both steel with cad. plate finish or aluminum.



CHOICE OF STEEL OR ALUMINUM

.062 thick Steel — Per Mil Spec. QQ-S 633 B Grade FS-1010 cadmium plated per QQ P-416 A Type II, Class B.
.062 thick Aluminum — Per QQ-A-318.

Cat. No. Steel	Cat. No. Alum.	W	L	S	FOR BOARDS Cat. Nos.		
1556	622	3/8	1⅝	1	15032	15072	15092
1567	623	3/8	2⅛	1½	15033	15073	15093
1568	624	3/8	2⅝	2	15034	15074	15094
1569	625	3/8	3⅛	2½	15035	15075	15095
1570	626	9/32	1 3/16	¾	15022	15024	15030
1571	627	9/32	1⅝	1 3/16	15036	15076	15096

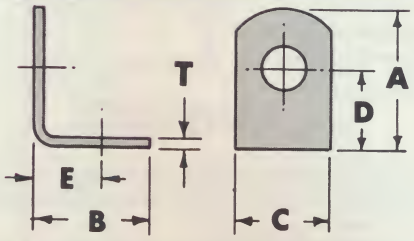


CAT. NO.	L	W
1565	2⅝	⅜
1566	2 13/16	9/16

.062 thick Steel
CADMIUM PLATED

UNIVERSAL BRACKETS

A wide range of Brackets for many uses and for your particular applications. Available from stock—Made of approved materials and platings.



STANDARD BRACKETS

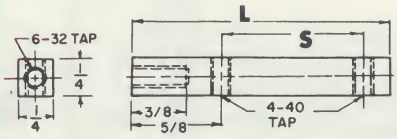
(Brass and Steel)

A choice of either brass and steel made to exacting specifications and Mil Spec finishes.

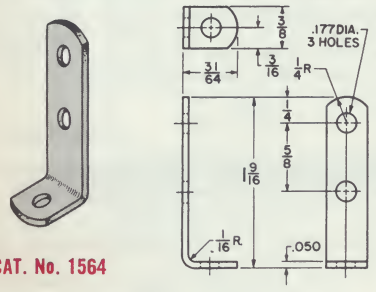
Key-stone Cat. No.	A	B	C	D	D Hole Dia.	E	E Hole Dia.	T Material	Finish
610	.171	.171	.125	.109	.067	.109	.067	.018 Brass	Hot Tin
611	.375	.422	.312	.234	.135	.250	8-32 Tap.	.037 Brass	Cad. Pl.
612	.343	.375	.312	.203	.128	.250	4-40 Tap.	.062 Steel	Cad. Pl.
613	.390	.437	.375	.234	.147	.299	.128	.032 Brass	N. P.
614	.406	.375	.312	.250	.144	.171	6-32 Tap.	.032 Brass	Cad. Pl.
615	.437	.343	.281	.281	.144	.203	.125	.032 Brass	Cad. Pl.
616	.453	.312	.250	.265	.136	.187	4-40 Tap.	.046 Brass	Cad. Pl.
617	.578	.500	.500	.328	.156	.299	6-32 Tap.	.032 Steel	Cad. Pl.
618	.628	.628	.375	.378	.169	.378	.169	.050 Brass	N. P.
619	.687	.687	.375	.500	.144	.500	.144	.032 Steel	N. P.
620	1.093	.656	.375	.843	.169	.406	.169	.032 Steel	Hot Tin
621	1.125	1.125	.375	.875	.169	.875	.169	.062 Brass	Cad. Pl.

TERMINAL BOARD SUPPORT

A sturdy support for mounting of standardized terminal boards. Brass, cad. plate and chromate.

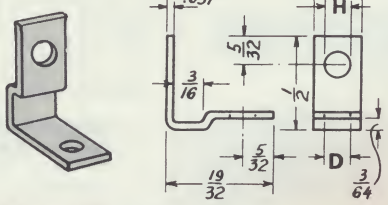


Cat. No.	Overall Length "L"	Spacing "S"
1647	2⅜	1½
1648	2⅞	2
1649	3⅜	2½



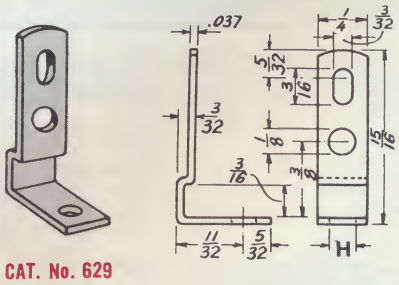
CAT. No. 1564

.050 BRASS—NICKEL PLATE



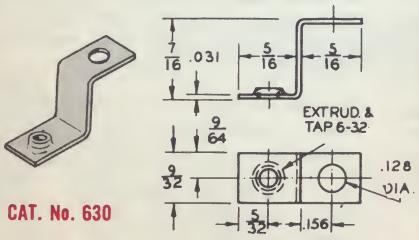
CAT. No. 628

.037 STEEL, CAD. PL.
H. .144 D .135



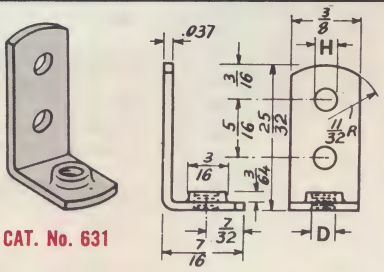
CAT. No. 629

.037 STEEL, CAD. PL.
H. .125



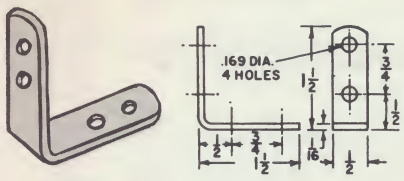
CAT. No. 630

.031 BRASS, CAD. PL.



CAT. No. 631

.037 STEEL, CAD. PL.
H. .136 D tapped 8/32



CAT. No. 633

.062 BRASS—CADMIUM PLATE

ALIGNMENT TOOLS

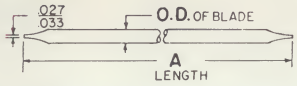
PRECISION MACHINED FIBERGLASS TOOLS (F.R.P.)*

Non-Metallic, Hi-Dielectric, Metal-like Tensile Strength.
Worn ends easily resharpened with file or grinder.

"LONG STRETCH" TV ALIGNERS

Machined of **Fiberglass Reinforced Polyester** which is hard, tough, low capacitance and the ideal material for durability and rough usage.

NO METAL
DUAL SCREWDRIVER ENDS



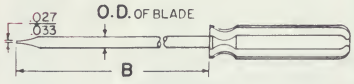
*Resin Bonded Fiberglass Filaments

Cat. No.	O.D. of BLADE	"A" LENGTH (inches)
3302	1/8" Diam.	7
3303		12
3304		16
3305	5/32" Diam.	7
3306		12
3307		16
3308	7/32" Diam.	7
3309		12
3310		16

MOLDED HANDLE with F.R.P.* BLADE

Handles are Fluted—Non-Slip Grip —.575 O.D. x 2⅜" long.

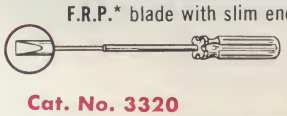
NO METAL — Fully Insulated

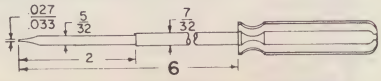


Cat. No.	O.D. of BLADE	"B" LENGTH (inches)
3311	1/8" Diam.	6
3312		11
3313		15
3314	5/32" Diam.	6
3315		11
3316		15
3317	7/32" Diam.	6
3318		11
3319		15

TURRET TUNER TOOL (No Metal)

F.R.P.* blade with slim end for easy access into holes of **TV Tuners.**

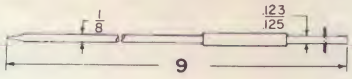




Cat. No. 3320

"BIG STRETCH" ALIGNER (with F.R.P.* blade)

Designed for adjustment of deep nested iron cores and TV front ends. Extra thin blade made of **F.R.P.** Worn ends can be resharpened. Steel cross pin at other end.

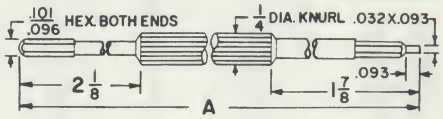


Cat. No. 3332

MOLDED HI IMPACT DELRIN PLASTIC TOOLS

Low Capacitance — Highest Quality — Most Popular Types
Standardized Aligners Available 5⅛" or 10⅝" long.

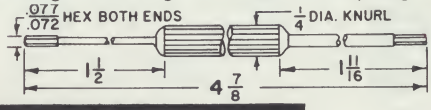
.094 Hex on both ends with Non Metallic screwdriver blade molded to one end of the Hex.



Cat. No. 3334 "A" Dimension is 5⅛" long overall
Cat. No. 3338 "A" Dimension is 10⅝" long overall

DUAL PURPOSE ALIGNER .075 HEX EACH END

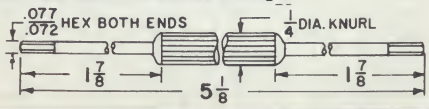
One end is undercut for tuning bottom slug. Other end tunes top slug.



Cat. No. 3335

.075 HEX ENDS

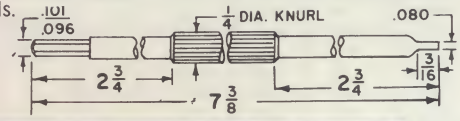
Molded to 3/32" dia. Shaft for Added Strength



Cat. No. 3336

COMBINATION "J" and "K" TRANSF'R. ALIGNER

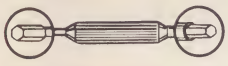
One end is .094 Hex for "J" type transf. Other end is a slot driver for "K" transf. and I.F. Coils.

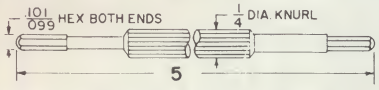


Cat. No. 3337

MOLDED NYLON TOOL for "J" Transformers

5 1/16" overall length, for tuning threaded hex core of I.F.'s as used in most TV sets.

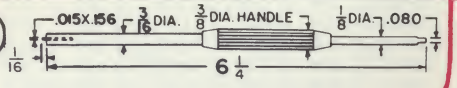




Cat. No. 3323

ALIGNING TOOL for "K" Transformers

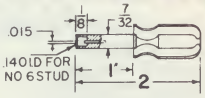
For K" Transformers and Peanut I.F. coils.



Cat. No. 3326

"SHORTY" STUD DRIVER

Metal nib for #6 stud is insulated and recessed. For IF and RF shielded coils and trimmers.

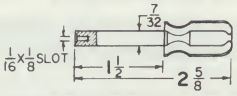


Cat. No. 3330

"SHORTY" tool with internal slot

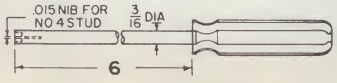
Cat. No. 3331

For milled end cores of coils & trimmers.



"SLIM" ALIGNER (for #4 studs)

Thin recessed nib is insulated and will not cause shorting against metal cases. Low Loss Butyrate plastic blade firmly seated into molded Grip-Tite handle.

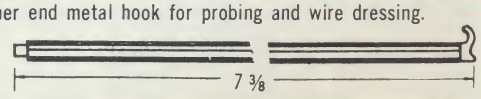


Cat. No. 3327

WIRE DRESSER & ALIGNER

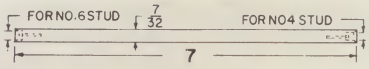
HANDLE: Butyrate Plastic, with knurled surface for sure grip. One end has screwdriver nib, other end metal hook for probing and wire dressing.

Cat. No. 3321



RECESSED SCREWDRIVERS (for #4 & #6 studs)

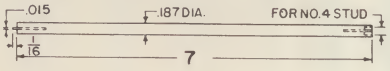
Ideal for tuning slugs and non-slip driver that fits over screw head.



Cat. No. 3322

GENERAL PURPOSE ALIGNER

HANDLE: Butyrate Plastic with knurled surface for iron core I.F.'s, R.F. coils, Pushbuttons, etc.



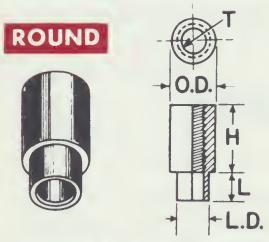
Cat. No. 3325

STANDARDIZED BUSHINGS - SPACERS - STANDOFFS

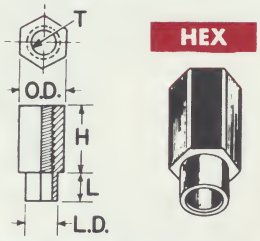
MATERIAL: ALL HARDWARE ON THIS PAGE IS MADE OF: BRASS MIL SPEC. QQ-B-626A COMP. 22—½ HARD.

SWAGE TYPE THREADED STANDOFFS

ROUND



Nickel Plate Mil-F-14072 QQ-N-290 Type VII



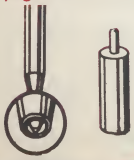
HEX

Cadmium plate per QQ-P-416 Type 2 Class B & clear chromate.

ROUND Nickel Plated Cat. No.	H Height Above Panel	L	For Panel Thickness	LD	OD	T Thread	HEX Cadmium Plated Cat. No.
1589-2	1/8	.109	1/16	.125	5/32	2-56	—
1589-3	1/8	.140	3/32	.125	5/32	2-56	—
1590-2	3/16	.109	1/16	.125	5/32	2-56	—
1590-3	3/16	.140	3/32	.125	5/32	2-56	—
1591-2	1/4	.109	1/16	.125	5/32	2-56	—
1591-3	1/4	.140	3/32	.125	5/32	2-56	—
1596-2	3/8	.109	1/16	.125	5/32	2-56	—
1596-3	3/8	.140	3/32	.125	5/32	2-56	—
1560 A	1/8	.109	1/16	.187	1/4	4-40	1653-2
1560-F	1/8	.140	3/32	.187	1/4	4-40	1653-3
1650-2	1/4	.109	1/16	.187	1/4	4-40	1627-2
1650-3	1/4	.140	3/32	.187	1/4	4-40	1627-3
1651-2	3/8	.109	1/16	.187	1/4	4-40	1628-2
1651-3	3/8	.140	3/32	.187	1/4	4-40	1628-3
1623-2	1/2	.109	1/16	.187	1/4	4-40	1629-2
1623-3	1/2	.140	3/32	.187	1/4	4-40	1629-3
1624-2	5/8	.109	1/16	.187	1/4	4-40	1654-2
1624-3	5/8	.140	3/32	.187	1/4	4-40	1654-3
1625-2	3/4	.109	1/16	.187	1/4	4-40	1655-2
1625-3	3/4	.140	3/32	.187	1/4	4-40	1655-3
1652-2	1	.109	1/16	.187	1/4	4-40	1630-2
1652-3	1	.140	3/32	.187	1/4	4-40	1630-3
1560 B	1/8	.109	1/16	.187	1/4	6-32	1620-2
1560 C	1/8	.140	3/32	.187	1/4	6-32	1620-3
1560 D	1/8	.171	1/8	.187	1/4	6-32	1620-4
1612-2	3/16	.109	1/16	.187	1/4	6-32	—
1612-3	3/16	.140	3/32	.187	1/4	6-32	—
1612-4	3/16	.171	1/8	.187	1/4	6-32	—
1546	1/4	.109	1/16	.187	1/4	6-32	1621-2
1546 B	1/4	.140	3/32	.187	1/4	6-32	1621-3
1546 D	1/4	.171	1/8	.187	1/4	6-32	1621-4
1561 B	3/8	.109	1/16	.187	1/4	6-32	1622-2
1561 C	3/8	.140	3/32	.187	1/4	6-32	1622-3
1561 D	3/8	.171	1/8	.187	1/4	6-32	1622-4
1604-2	1/2	.109	1/16	.187	1/4	6-32	—
1604-3	1/2	.140	3/32	.187	1/4	6-32	—
1604-4	1/2	.171	1/8	.187	1/4	6-32	—
1605-2	5/8	.109	1/16	.187	1/4	6-32	—
1605-3	5/8	.140	3/32	.187	1/4	6-32	—
1605-4	5/8	.171	1/8	.187	1/4	6-32	—
1608-2	3/4	.109	1/16	.187	1/4	6-32	—
1608-3	3/4	.140	3/32	.187	1/4	6-32	—
1608-4	3/4	.171	1/8	.187	1/4	6-32	—
1609-2	1	.109	1/16	.187	1/4	6-32	—
1609-3	1	.140	3/32	.187	1/4	6-32	—
1609-4	1	.171	1/8	.187	1/4	6-32	—

STAKING TOOLS FOR ABOVE STAND-OFFS

Precision made tools—heat treated and plated. Will give your job the professional appearance. Set of tools consist of: Top Staking Tool and Anvil. See page 36 for other tools.

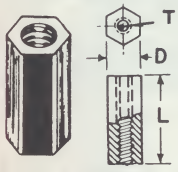


CAT. NO.	
TL-19	For Bushing 5/32 OD with 2-56 Thd.
TL-20	For Bushing 1/4 OD with 4-40 Thd.
TL-21	For Bushing 1/4 OD with 6-32 Thd.

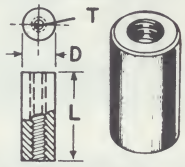
THREADED SPACERS

Threaded spacers ¼" O.D. threaded 4-40, 6-32, 8-32 available either in round or hex. Round type is nickel plated, hex type is cadmium.

HEX



Cadmium plate per QQ-P-416 Type 2 Class B & clear chromate.



ROUND

Nickel Plate Mil-F-14072 QQ-N-290 Type VII

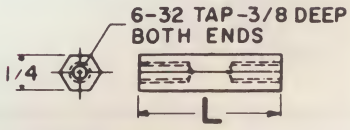
HEX Cadmium Plated Cat. No.	D	L	T Thread	ROUND Nickel Plated Cat. No.
1450	3/16	1/4	4-40	1547
1656	3/16	1/2	4-40	1657
1656A	3/16	3/4	4-40	1657A
1656B	3/16	1	4-40	1657B
1450A	1/4	1/4	4-40	1547A
1450B	1/4	3/8	4-40	1547B
1450C	1/4	1/2	4-40	1547C
1450D	1/4	3/4	4-40	1547D
1450E	1/4	1	4-40	1547E
1451A	1/4	1/4	6-32	1548A
1451B	1/4	3/8	6-32	1548B
1451C	1/4	1/2	6-32	1548C
1451D	1/4	5/8	6-32	1548D
1451E	1/4	3/4	6-32	1548E
1635	1/4	1	6-32	1548F
1474A	1/4	1/4	8-32	1692A
1474B	1/4	3/8	8-32	1692B
1474C	1/4	1/2	8-32	1692C
1474D	1/4	3/4	8-32	1692D
1474E	1/4	1	8-32	1692E
1452A	3/8	3/8	8-32	1549A
1452B	3/8	1/2	8-32	1549B
1452C	3/8	5/8	8-32	1549C
1452D	3/8	3/4	8-32	1549D
1452E	3/8	1	8-32	1549E

HEX SPACERS 6-32 TAPPED BOTH ENDS

Extra long length spacers ideal as standoff legs for Keystone pre-punched boards or your special application.

Brass cad. plated and chromate.

Cadmium plate per QQ-P-416 Type 2 Class B & clear chromate.

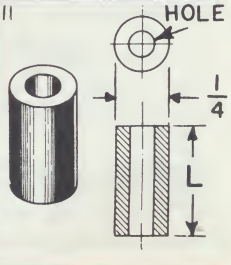


CAT. NO.	Length
1635	1
1636	1¼
1637	1½
1638	1¾
1639	2
1642	2¼
1643	2½

ROUND BRASS SPACERS

FINISHES: Nickel Plate Mil-F-14072 QQ-N-290 Type VII

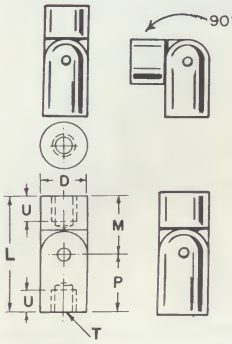
L Length Inches	For #4 Screw .120 Hole Cat. No.	For #6 Screw .140 Hole Cat. No.	For #8 Screw .171 Hole Cat. No.
1/4	1454A	1457A	1480
3/8	1454B	1457B	1481
1/2	1454C	1457C	1482
3/4	1454D	1457D	1483
1	1454E	1457E	1484

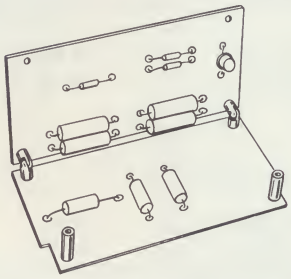


STANDARDIZED BUSHINGS – SPACERS – STANDOFFS

HINGED STANDOFFS FOR TERMINAL BOARDS

APPLICATIONS UNLIMITED • TIME SAVING • CUT COST OF SERVICING • SPACE SAVER
INTERCONNECT CIRCUITS OR SERVICES WITHOUT DANGER OF SHORTING • WIRING EXPOSED FOR EASY TEST





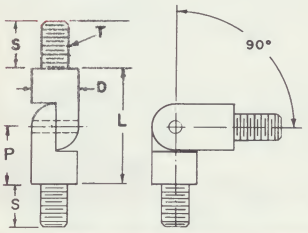
Only 2 screws used to fasten board in place or open the hinged board.

MATERIAL: MADE OF: BRASS MIL SPEC. QQ-B-626A COMP. 22—½ HARD.
FINISH: Cadmium Plate per QQ-P-416 Class 2, Type 2 and gold Iridite

These standoffs mount at front of the board.

HINGE CAT. NO.	T THREAD	D DIAM.	L LENGTH	U	M	P
351	4-40	.187	3/4	.172	.375	.375
352	4-40	.187	1	.250	.375	.625
353	6-32	.250	3/4	.172	.375	.375
354	6-32	.250	1	.250	.375	.625
355	8-32	.250	3/4	.172	.375	.375
356	8-32	.250	1	.250	.375	.625

STANDOFF ONLY For Front of Board CAT. NO.	L LENGTH
1657A	.750
1657B	1.0
1548E	.750
1548F	1.0
1692D	.750
1692E	1.0



These standoffs mount at front of the board.

HINGE CAT. NO.	T THREAD	L LENGTH	D DIAM.	S	P	STANDOFF ONLY For Front of Board CAT. NO.
357	4-40	1/2	.187	1/4	1/4	1657
—	—	—	—	—	—	—
358	6-32	1/2	.250	5/16	1/4	1548C
—	—	—	—	—	—	—
359	8-32	1/2	.250	5/16	1/4	1692C
—	—	—	—	—	—	—

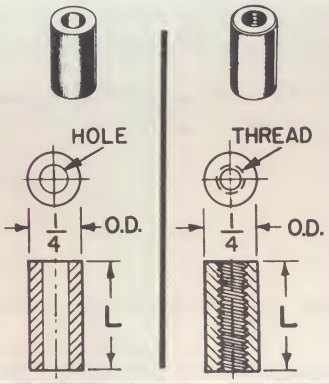
PHENOLIC SPACERS

- RESISTS ABRASIONS & CHEMICALS
- LOW MOISTURE ABSORPTION
- EXCELLENT DIELECTRIC
- GOOD MECHANICAL STRENGTH

MATERIAL:
PBE Grade Natural Color Phenolic —
Special Sizes Made to Order — Promptly Quoted

SPACERS — DRILLED HOLE ONLY

Length Inches	For #4 Screw .120 Hole CAT. NO.	For #6 Screw .140 Hole CAT. NO.	For #8 Screw .171 Hole CAT. NO.
¼ (.250)	360	367	1490
⅜ (.375)	361	368	1491
½ (.500)	362	369	1492
¾ (.750)	363	370	1493
1 (1.000)	364	371	1494
1½ (1.500)	365	372	374
2 (2.000)	366	373	375



SPACERS — WITH TAPPED HOLE

Length Inches	4-40 Thread CAT. NO.	6-32 Thread CAT. NO.	8-32 Thread CAT. NO.
¼ (.250)	376	383	390
⅜ (.375)	377	384	391
½ (.500)	378	385	392
¾ (.750)	379	386	393
1 (1.000)	380	387	394
1½ (1.500)	381	388	395
2 (2.000)	382	389	396

1.500 and 2" are tapped ⅜ deep each end

ALUMINUM ECONOMY SPACERS FOR No. 4, 6 or 8 SCREWS

Tight Joint on Outside Diameter

- PRECISION FORMED • NO BURRS

Made of flat strip aluminum and rolled on precision equipment. Assures maximum bearing surface, square ends.

Aluminum — Per 5052-H34 per QQ 318 C

Description and Tol.

SPACER FOR	I.D. Plus Minus .005	O.D. Plus Minus .007
#4	.125	.167
#6	.151	.193
#8	.178	.232

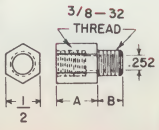
L Length	For No. 4 CAT. NO.	For No. 6 CAT. NO.	For No. 8 CAT. NO.
3/16	397	—	—
1/4	398	405	412
5/16	399	406	413
3/8	400	407	414
7/16	401	408	415
1/2	402	409	416
5/8	403	410	417

L Length	For No. 4 CAT. NO.	For No. 6 CAT. NO.	For No. 8 CAT. NO.
¾	418	425	432
⅞	419	426	433
1	420	427	434
1¼	421	428	435
1½	422	429	436
1¾	—	430	437
2	—	—	438

BUSHING EXTENDERS

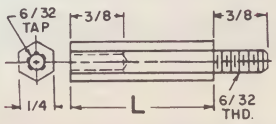
For 1/4" volume control shafts having 3/8-32 threaded bushings. Made of BRASS and NICKEL PLATED.

CAT. NO.	A	B
1464	5/8	1/4
1465	5/8	3/8
1466	11/16	1/2
1467	3/4	1/4



HEX STANDOFF

Internal tapped **6-32** x ⅜ deep one end, **6-32** x ⅜ long thread other end. Brass, cad. plate and chromate.



Cat. No.	Length
1644	1
1645	1½
1646	2

EYELETS – PINS – CONTACTS

FUNNEL FLANGE and WIDE ROLL EYELETS

Available in standard packages of 100 or 1000 pieces.

- PRECISION MADE
- SOLDERABILTY RETAINED INDEFINITELY
- LOW COST
- FROM STOCK

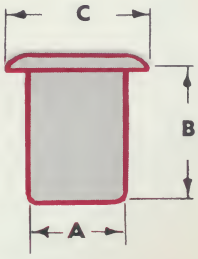
Highest engineering standards maintained to produce these eyelets to uniform dimensions. Guaranteed to be within listed tolerances. A choice of most popular sizes in general use for Electronic circuitry.

MATERIAL: Made of BRASS

PLATING: HOT DIP SOLDER finish, MIL-F-14072. Recommended for longer shelf life and better solderability. Other platings can be furnished.

WIDE ROLL

TOLERANCES:
A Plus or Minus .003.
B Plus or Minus .008
C Plus or Minus .005



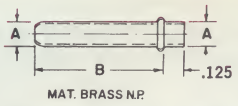
FUNNEL FLANGE

STAKING TOOLS AVAILABLE FOR ALL EYELETS — SEE PAGE 36.

Cat. No.	A Outside Diameter Barrel	B Length Under Flange	C Flange Diameter	Hole Size of Material to be Eyeleted	For Board Thickness
WIDE ROLL EYELETS					
22	All Are .059 dia.	.062	All Are .105 dia.	.062 (1/16")	1/32
23		.093			1/16
24		.125			3/32
25		.156			1/8
26		.187		Use Drill #52	—
27		.219			—
33	All Are .089 dia.	.093	All Are .150 dia.	.093 (3/32")	1/16
34		.125			3/32
35		.156			1/8
36		.187		Use Drill #42	—
37		.219			—
43	All Are .121 dia.	.093	All Are .200 dia.	.125 (1/8")	1/16
44		.125			3/32
45		.156			1/8
46		.187		Use Drill #30	—
47		.219			—
48		.250			—
FUNNEL FLANGE EYELETS for Printed Circuit Boards					
49	All Are .059 dia.	.062	All Are .095 dia.	.067 dia. Use Drill #51	1/32
50		.093			1/16
51		.125			3/32
52		.156			1/8

PINS AND MATING SOCKET CONTACTS

Pins for 3/32—1/8 & 5/32 Contacts.



These Pins can be staked to 1/16" or 3/32" Insulator.

MATERIAL: Brass & Nickel Plated

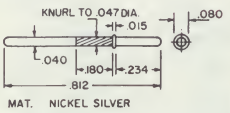
CAT. NO.	A	B
1223	.093	.293
1224	.093	.357
1226	.093	.437
1200	.125	.379
1201	.125	.504
1210	.125	.566
1230	.156	.379
1231	.156	.566

PRECISION FORMED • ECONOMICAL • CLOSE TOLERANCES

USES: Cord Extension, Connectors, Module Sockets, 1001 Other Uses.

KAY PIN for .030 and .040 Socket Contacts

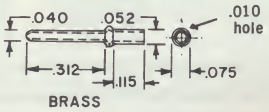
Made of solid Nickel Silver. These are force fitted into pre-drilled hole.



CAT. NO. 1218

Tubular (Hollow Pin) for .040 Socket Contacts

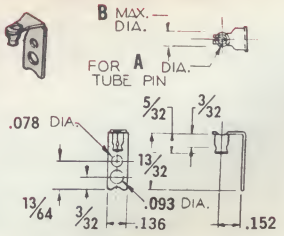
actual size



Made of Brass, Electro Tinned . These are staked to 1/16" thick insulator.

CAT. NO. 1219

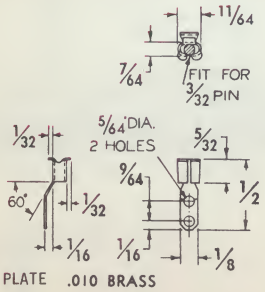
MATING SOCKET CONTACTS for .030 & .040 Pins



MATERIAL: .012 thick Brass, Cadmium Plated. Other platings available; promptly quoted upon request.

CAT. NO.	A	B	Material .012 Thick
1240	.040	.095	Brass
1242	.030	.097	Brass
1243	.040	.095	Ber. Cop.
1244	.040	.095	Phos. Br.

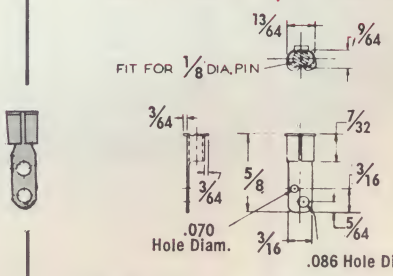
MATES WITH 3/32" DIA. PIN



CADMIUM PLATE .010 BRASS

CAT. NO. 1245

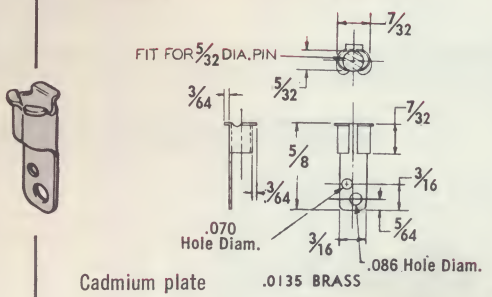
MATES WITH 1/8" DIA. PIN



CADMIUM PLATE .0135 BRASS

CAT. NO. 1247

MATES WITH 5/32" DIA. PIN



Cadmium plate .0135 BRASS

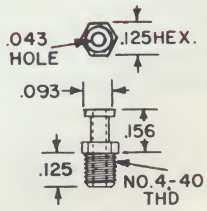
CAT. NO. 1246

STANDARDIZED TERMINALS – NYLON WASHERS

FINISHES: Nickel Plate Mil-F-14072 QQ-N-290 Type V
Cadmium plate per QQ-P-416 Type 2 Class B & clear chromate.
Hot Tinned per Mil-F-14072 type 221
Silver Plate per Mil-F-14072, QQ-S-365.

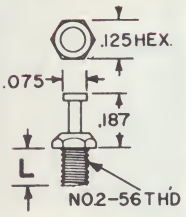
STANDARDIZED TURRET TERMINALS—THREADED BASES

Cat. No. 1563



Brass—Silver Plated

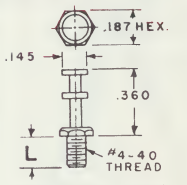
Cat. No. 1595



Brass—Silver Plated

No.	L
1595-1	.093
1595-2	.125
1595-3	.188

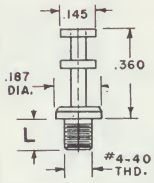
Cat. No. 1587



Brass—Silver Plated

No.	L
1587-1	.125
1587-2	.188

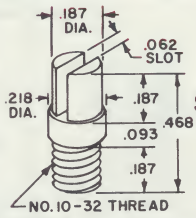
Cat. No. 1558



Brass—Silver Plated

No.	L
1558-1	.125
1558-2	.188

Cat. No. 1658



PEGBOARD TERMINAL WITH SCREWDRIVER SLOT

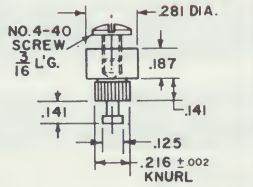
CADMIUM PLATE
Steel

Self threading terminal for use with standard pegboard for prototype layout. Insertion by screwdriver. Pre-tapped hole is not required.

BINDING POST TERMINALS (RIVET TYPE)

Binding Post Terminals with 4-40 Screw

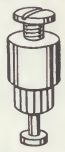
Cat. No. 1537

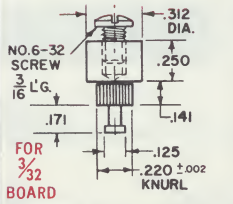


Terminal: Brass—Cadmium Plated
Screw: Brass—Nickel Plated

Cat. No. 1535

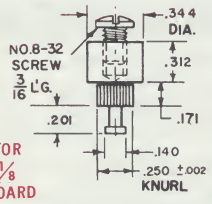
Rivet Type with 6-32 Screw or 8-32 Screw





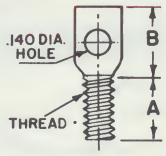
Terminal: Brass—Cadmium Plated
Screw: Brass—Nickel Plated

Cat. No. 1536



Terminal: Brass—Cadmium Plated
Screw: Brass—Nickel Plated

SPADE BOLTS

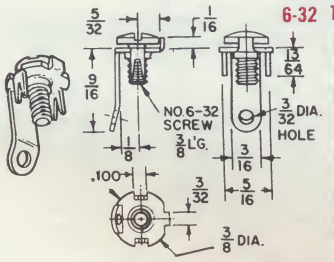


CAT. NO.	A	B	Thread
1259	1/4	1/2	6-32
1260	3/8	13/32	8-32

Steel Cadmium Plated

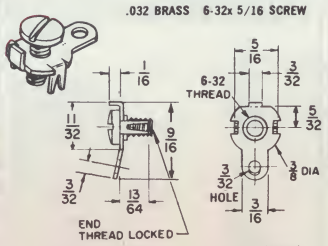
PRECISION STAMPED SCREW TERMINALS

6-32 Tapped



Terminal: Brass—Cadmium Plated
Screw: Steel—Cadmium Plated

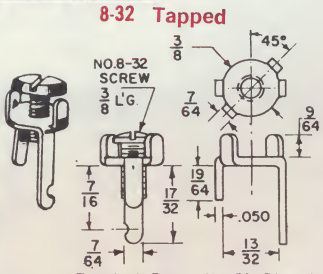
Cat. No. 1248



Terminal: Brass—Cadmium Plated
Screw: Steel—Cadmium Plated

Cat. No. 1232

8-32 Tapped

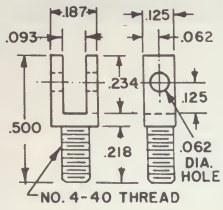


Terminal: Brass—Hot Tin Dipped
Screw: Brass—Nickel Plated

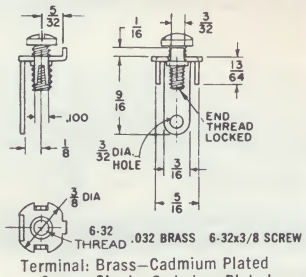
Cat. No. 1209

TERMINAL BOARD BRACKET

Brass QQ626 Comp. 22 and nickel plated.

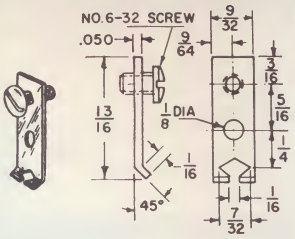


Cat. No. 1203



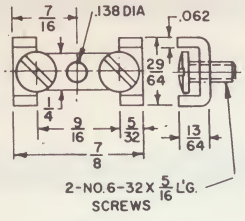
Terminal: Brass—Cadmium Plated
Screw: Steel—Cadmium Plated

Cat. No. 1215



Terminal: Brass—Hot Tin Dipped
Screw: Brass—Nickel Plated

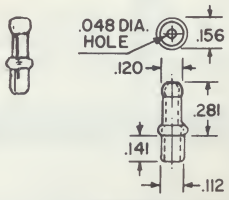
Cat. No. 1277



.062 BRASS, NICKEL PL.
Two 5/16 x 6:32 Brass B.H. Screws Inserted

Cat. No. 1216

Low cost tubular pin terminal for 1/16" thick insulator.

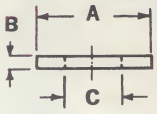


MAT. BRASS-HOT TIN

Cat. No. 1221

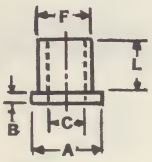
MOLDED NYLON AND VULCOID WASHERS

These washers conform to irregular surfaces, seal and dampen vibration, prevent galling under screw head.



FLAT WASHERS (MOLDED NYLON)				
Cat. No.	For Screw Size	A	B	C
345	#4	.281	.047	.115
346	#6	.312	.047	.140
347	#8	.375	.062	.170
VULCOID FIBRE FLAT WASHERS				
348	#4	.312	.032	.130
349	#10	.312	.032	.210

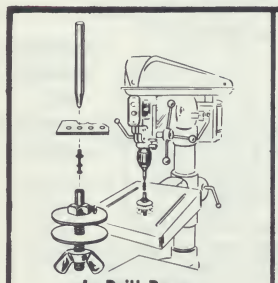
MOLDED NYLON SHOULDER WASHERS						
Cat. No.	For Screw Size	Length L	A	B	F	C
340	#4	.250	.234	.047	.145	.115
341	#6	.250	.290	.047	.170	.140
342	#8	.375	.344	.062	.205	.173
VULCOID FIBRE SHOULDER WASHERS						
343	#4	.025	.312	.062	.203	.125
344	#4	.015	.312	.062	.203	.125



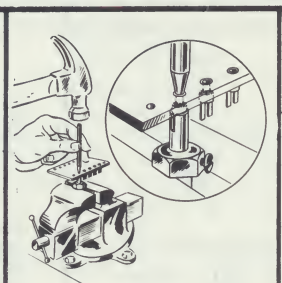
STAKING TOOLS

• BUILD TERMINAL BOARDS • MOUNT COMPONENTS QUICKLY and EASILY •

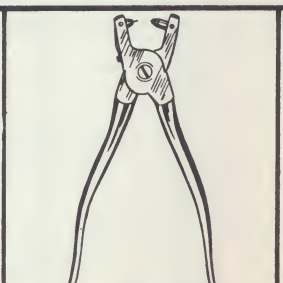
Repair Circuits • Make Prototypes at Your Desk • SAFE—VERSATILE—ECONOMICAL



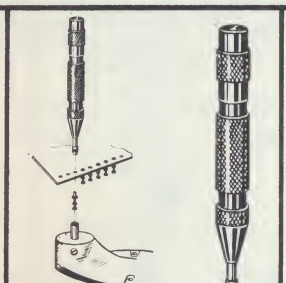
In Drill Press with Power off



Use in Vise



Plier Eyeletter



Impact Staker

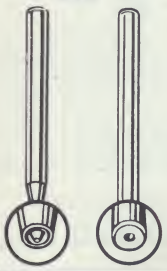
ALL TOOLS ARE PRECISION CRAFTED, HEAT TREATED AND PLATED TO ASSURE DEPENDABILITY AND SATISFACTORY SERVICE.

COMPLETE SIMPLE INSTRUCTIONS ARE FURNISHED WITH ALL TOOLS

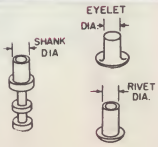
INDIVIDUAL TOOLS AS SUPPLIED IN "BASIC" AND "MASTER" KITS

TOP SETTING TOOLS (Swager)

1/4" Diameter Tools



For Single End Terminals, Eyelets or Rivets



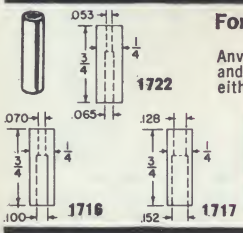
Cat. No.	For Shank Diam's.
1714	.062 to .098
1715	.110 to .125

For Dubl End (Feed-thru)

Hole in tool fits over Pin head and securely stakes the rivet part of terminal.

Cat. No.	For Pin on Rivet end
1304	.051 Hole Diam.
1305	.063 Hole Diam.
1306	.073 Hole Diam.
1307	.086 Hole Diam.
1324	.098 Hole Diam.

BOTTOM ANVILS

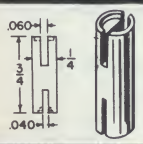


For Single End or Dubl End Terminals

Anvils have different size of holes in each end and therefore will accept 2 sizes of Pins of either Single or Dubl end Turret type Terminals.

Cat. No.	Hole one end	Hole other end
1722	.053	.065
1716	.070	.100
1717	.128	.152

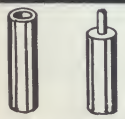
ANVIL FOR FORK TYPE TERMINALS



Will accept Diameters of 3/32 to 5/32 at one end and diam. of 3/16 at other end.
.040 slot one end and .060 slot at other end.

CAT. NO. 1726

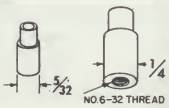
ANVIL FOR STANDOFF BUSHINGS



1326 1325 1309

Cat. No.

1326 Holds Bushing with 5/32" O. D.
1325 For Bushing with No. 6-32 Thr'd
1309 For Bushing with No. 4-40 Thr'd



TOOLHOLDER

For 1/4" Diameter Anvils

For use In Vise, Arbor, Kickpress, Punch Press, Drill Press etc. Consists of: Holder, 2 washers and wing nut plus instructions.

CAT. NO. 1719

EYELET STAKING PLIERS

For 1/16" and 3/32" Dia. Eyelets

Tools included.

The eyelet is held on a pin which retracts when engaged by the staker. Quick, Easy operation.

CAT. NO. 1328

INDIVIDUAL TOOLS AS SUPPLIED IN "IMPACT" STAKER KIT

"IMPACT" STAKER (Less Tools)

Automatic, Uniform striking action which is adjustable from light to heavy blows. Compact, simple one hand operated device. 1/2" diameter by 5" long—Accepts No. 3-56 threaded tips.

CAT. NO. 1302

TOP SETTING TOOLS (Swager)

Top Setting Tools For Impact Staker

Cat. No.	For Shank Diam's.
1312	.040 to .072
1313	.078 to .093

For Dubl end Terminals (Feed-thru)

Hole in tool fits over Pin head and Firmly Stakes the rivet part of terminal.

Cat. No.	Hole Diam.
1310	.053
1311	.062

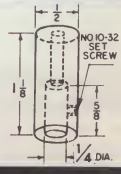
TOOLHOLDER (BASE)

For 1/4" Diameter Anvils

This malleable iron base is ideal for use at the desk or can be mounted permanently—mounting holes are provided. A felt pad is glued to the base and prevents marring finished surfaces. Small. compact easily fits briefcase; or corner of tool box.

CAT. NO. 1301

1/2" TOOL ADAPTER

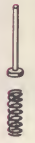


For 1/4" Diameter Tools

A convenient accessory—used to protect top of tool when hammer staking; or in presses with 1/2" bore in ram.

CAT. NO. 1327

RECEDING PINS AND SPRING

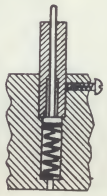


Holds Eyelets and Extruded Lugs, Pin retracts when engaged by Swaging tool.

NOTE: Designed for use with Nos. 1722 and 1716 Anvils and Nos. 1719 and 1301 Toolholders. Spring is placed in Toolholder. Pin is inserted into Anvil, then placed over the spring. Simple instructions included.

Cat. No.

1315 Pin is .045 Diam. Use with No. 1722 anvil, ideal for 1/16" Diam. eyelets.
1316 Pin is .068 Diam. Use with No. 1716 Anvil, ideal for 3/32" eyelets or extruded lugs.
1321 Spring only (Pkg. of 2).

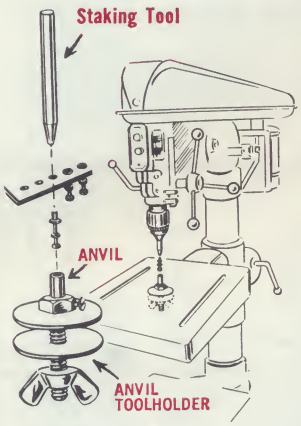


STAKING TOOL KITS

For MANUAL USE and ADAPTABLE TO ANY ARBOR PRESS — KICKPRESS — DRILL PRESS

Stakes—Eyelets—Rivets—Terminals • 1001 Uses in the Laboratory or Factory

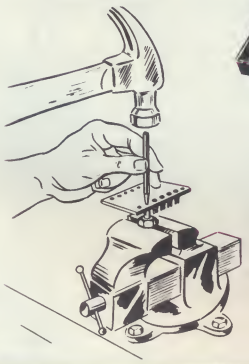
Produce Professional Results • Uniformity Assured • Quick • Simple • Low Cost



In Drill Press with Power off

OR

Use in Vise



"BASIC" STAKING KIT

For Single End Terminals, Eyelets or Rivets

For Single End Turret Terminals-Eyelets-Rivets. Stake any Diameter from 1/16" to 1/8".

Easily stake the following Terminals, Eyelets and Rivets.

SINGLE END — EYELETS — RIVETS

The unskilled Operator can produce Professional looking assemblies quickly and with little effort. Designed originally for use in Drill Press (WITHOUT POWER ON) it is adaptable for use in a VISE, KICKPRESS, PUNCH or AIR PRESS, ETC. TOOLS are made of Steel, Precision contoured, Heat Treated to proper hardness and plated. They will produce rolls which are professional in appearance to give Long Lasting Wear and Satisfactory Service.

"BASIC" KIT Consists of: ONE EACH —

TOOLHOLDER NO. 1719 (Will hold any ¼" dia. Tools) complete with 2 Washers and Wing Nut.

TOOLS: 1 each — 1714, 1715, 1716, 1717.

Instructions Included.

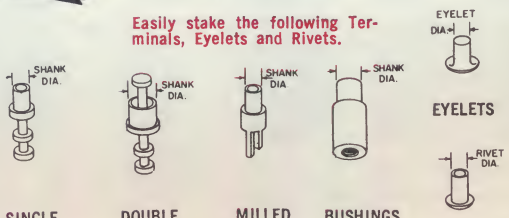
Specify **Cat. No. 1721 Kit** complete.

"MASTER" STAKING KIT

For Single End, Double End (Feed-thru) and Fork Terminals Extruded Lugs, Eyelets, Rivets, etc.

Stake Diameters from 1/16" to 3/16"

Easily stake the following Terminals, Eyelets and Rivets.



SINGLE END — DOUBLE FEED THRU — MILLED FORK TYPE — BUSHINGS — EYELETS — RIVETS

A New Kit including all of the Basic Tooling incorporated into the No. 1721 KIT PLUS additional Tools to do most of the staking operations required in the Laboratory and Factory. The Serviceman, Lab Technician and Factory Mechanic will appreciate the versatility, that this tooling will provide.

"MASTER" KIT Consists of: ONE EACH —

TOOLHOLDER No. 1719 (will hold any 1/4" dia. Tools) complete with 2 Washers and Wing Nut.

TOOLS: 1 each — 1304, 1305, 1306, 1307, 1315, 1316, 1321, 1324, 1325, 1326, 1714, 1715, 1716, 1717, 1719, 1722, 1726.

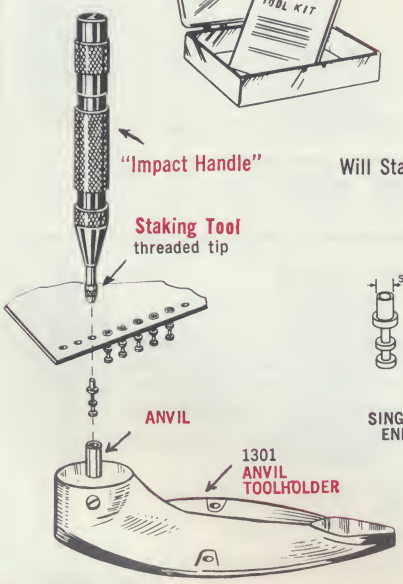
Instructions Included.

Specify **Cat. No. 1713 Kit** complete.

"IMPACT" STAKING KIT — For Terminals - Eyelets - Rivets

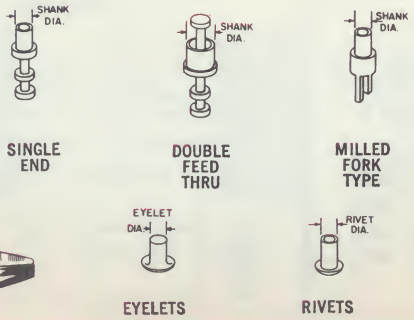
For Single End, Double End (Feed-thru) and Fork Terminals Extruded Lugs, Eyelets, Rivets, etc.

- MOVING PARTS HARDENED
- SIMPLE CONSTRUCTION
- FOOLPROOF
- SAFE
- AUTOMATIC SINGLE HAND OPERATION
- PRESS DOWN AND IT STAKES
- ADJUSTABLE FROM LIGHT TO HEAVY BLOW



Will Stake all Diameters to 3/32" max. capacity.

Easily stake the following Terminals, Eyelets and Rivets.



SINGLE END — DOUBLE FEED THRU — MILLED FORK TYPE — EYELETS — RIVETS

Anyone can perform assembly operations anywhere in the Lab, Shop, or Home on a Desk or at the Bench. Compactly packaged to be carried in Briefcase or Tool Box.

The "Impact Handle" will produce a light or heavy blow which is adjustable by turning of the spring tension cap. Uniform striking action attained by pressing down handle. Interchangeable Tools supplied permit assembly of Terminal Boards, Printed Circuits and small components.

Base (Toolholder) is felt covered to prevent marring. Mounting holes provided for permanent assembly to bench.

"IMPACT" KIT Consists of: ONE EACH —

TOOLHOLDER No. 1301 Anvil Tool Holder.

"IMPACT" HANDLE No. 1302

TOOLS: 1 each—1310, 1311, 1312, 1313, 1315, 1316, 1321, 1716, 1717, 1722, 1726.

Instructions Included.

Specify **Cat. No. 1707 Kit** complete.

ILLUSTRATED TERMINAL INDEX

Standardize with KEYSTONE Terminals: We have supplied these precision made terminals to government agencies and industrial users for over twenty years.

The most popular types of terminals are marked with a star (★) and are most economical.

MATERIAL: Machined of free cutting ½ hard BRASS per Mil-QQ-B-626, Comp. 22, 1/2 hard.

TOOLING: Individual sets of staking tools and kits of tools available from stock.

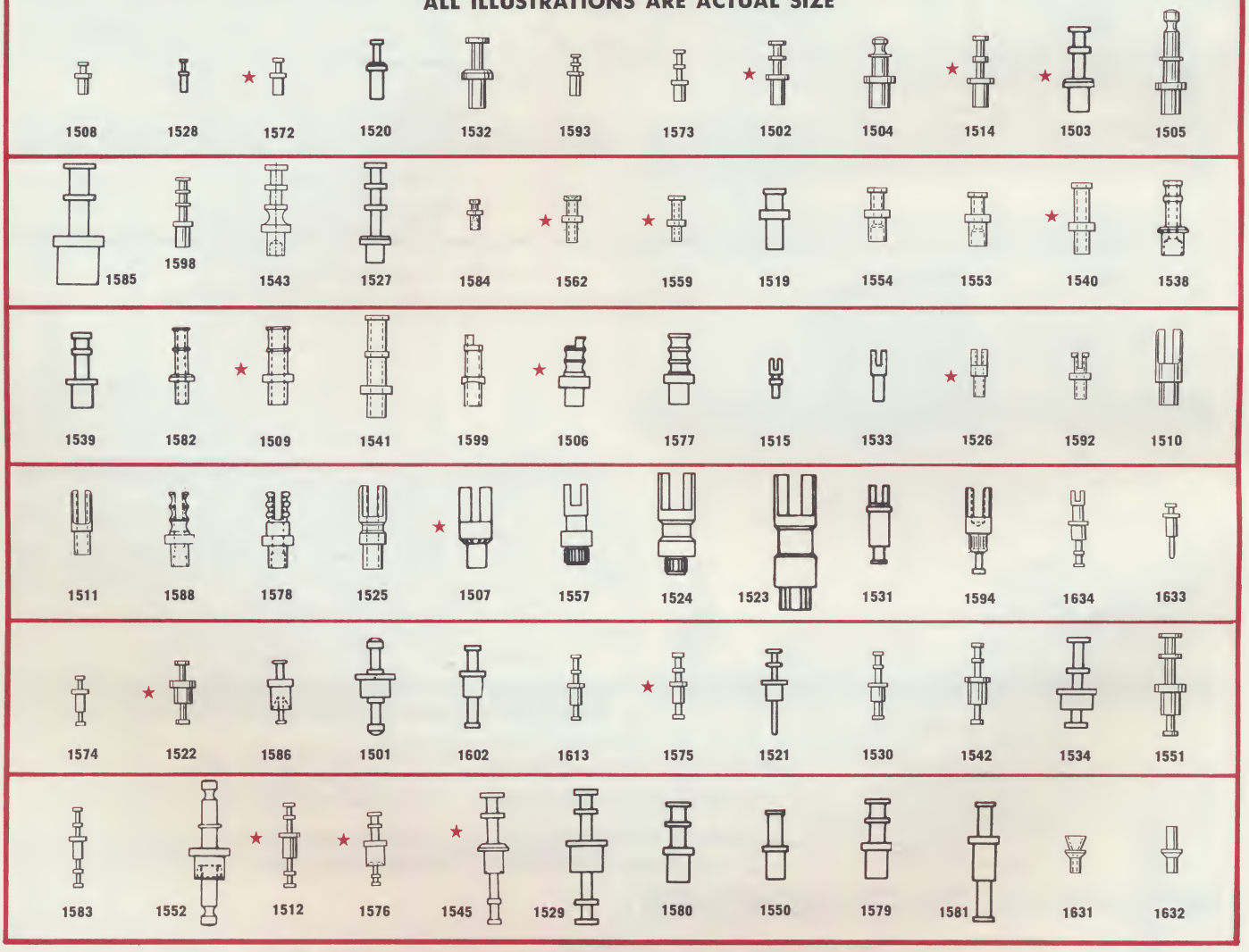
PLATING: Terminals are stocked in **Silver Plate** per Mil-F-14072, QQ-S-365. **(We highly recommend Hot Tin Dip finish for longer shelf life, better solderability and resistance to tarnish).**

TOLERANCES: Decimals — DO NOT EXCEED plus or minus .005.

SPECIAL TERMINALS: Made to your exacting specifications, platings and tolerances. Prompt quotations rendered.

CUSTOM-BUILT BOARDS: We are specialists in the assembly of terminals, eyelets, clips and special hardware, submit your drawings and prompt quotation will be rendered.

ALL ILLUSTRATIONS ARE ACTUAL SIZE



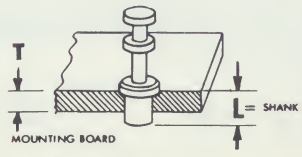
DETAILED DIMENSIONAL DRAWINGS ON THE FOLLOWING PAGES

(★) The most popular types of terminals are marked with a star (★) and are most economical.

ORDERING INFORMATION:

TERMINALS

Specify catalog number of terminal selected and add the dash number or mention the thickness of the insulator to be used, for example: **1503-1** for **1/32″** insulator, **1503-2** for **1/16″** insulator etc.



—1 for insulating board 1/32″ thick
—2 for insulating board 1/16″ thick
—3 for insulating board 3/32″ thick
—4 for insulating board 1/8″ thick

STAKING TOOLS

Catalog No. TL- series designates a set of tools, consisting of **TOP (staking)** and **BOTTOM (holder).** Some sets of tools can be used for other terminals with similar dimensions. Tools are made of 1/4″ dia. steel and **cadmium plated.**

Precision Machined and carefully **hardened** to insure **long wear.**

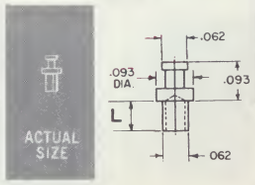
1/2″ dia. **Adapters** for 1/4″ dia. Tools are available. **Specify Cat. No. 1327.**

NOTE: Where tools are not listed they are available on special order only.

STANDARDIZED TERMINALS

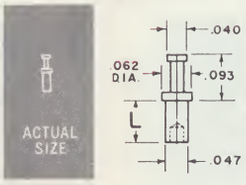
SINGLE, DOUBLE & THREE TURRET SERIES

1508



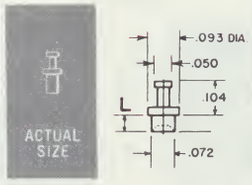
No.	L	T	Staking Tools
1508-1	.045	1/32	No.
1508-2	.094	1/16	TL-1
1508-3	.125	3/32	
1508-4	.156	1/8	

1528



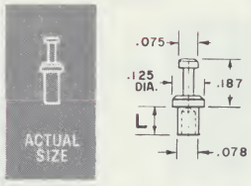
No.	L	T	Staking Tools
1528-1	.051	1/32	*
1528-2	.082	1/16	
1528-3	.113	3/32	
1528-4	.145	1/8	

1572



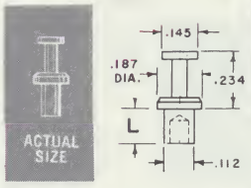
No.	L	T	Staking Tools
1572-1	.051	1/32	No.
1572-2	.082	1/16	TL-4
1572-3	.113	3/32	
1572-4	.145	1/8	

1520



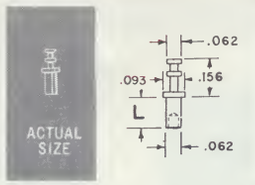
No.	L	T	Staking Tools
1520-1	.078	1/32	No.
1520-2	.109	1/16	TL-2
1520-3	.141	3/32	
1520-4	.172	1/8	

1532



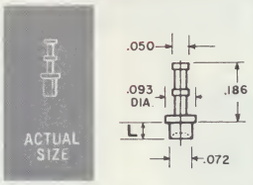
No.	L	T	Staking Tools
1532-1	.078	1/32	No.
1532-2	.109	1/16	TL-8
1532-3	.141	3/32	
1532-4	.172	1/8	

1593



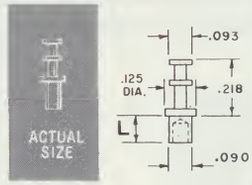
No.	L	T	Staking Tools
1593-1	.054	1/32	No.
1593-2	.084	1/16	TL-1
1593-3	.115	3/32	
1593-4	.147	1/8	

1573



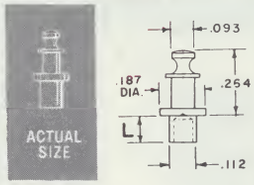
No.	L	T	Staking Tools
1573-1	.051	1/32	No.
1573-2	.082	1/16	TL-4
1573-3	.113	3/32	
1573-4	.145	1/8	

1502



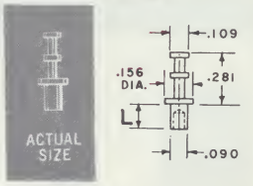
No.	L	T	Staking Tools
1502-1	.078	1/32	No.
1502-2	.109	1/16	TL-2
1502-3	.141	3/32	
1502-4	.172	1/8	

1504



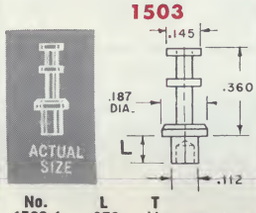
No.	L	T	Staking Tools
1504-1	.078	1/32	No.
1504-2	.109	1/16	TL-8
1504-3	.141	3/32	
1504-4	.172	1/8	

1514



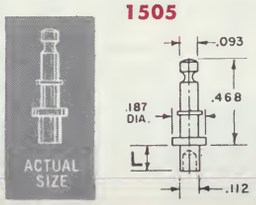
No.	L	T	Staking Tools
1514-1	.078	1/32	No.
1514-2	.109	1/16	TL-5
1514-3	.141	3/32	
1514-4	.172	1/8	

1503



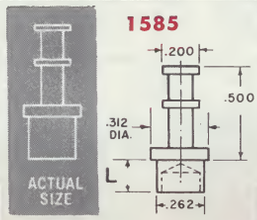
No.	L	T	Staking Tools
1503-1	.078	1/32	No.
1503-2	.109	1/16	TL-8
1503-3	.141	3/32	
1503-4	.172	1/8	
1503-6	.234	3/16	
1503-8	.297	1/4	

1505



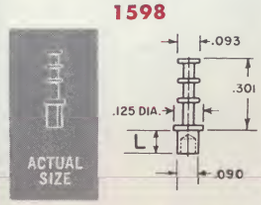
No.	L	T	Staking Tools
1505-1	.078	1/32	No.
1505-2	.109	1/16	TL-8
1505-3	.141	3/32	
1505-4	.172	1/8	

1585



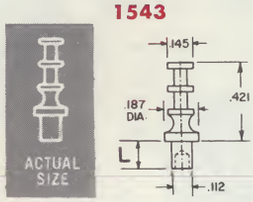
No.	L	T	Staking Tools
1585-2	.109	1/16	*
1585-3	.141	3/32	
1585-4	.172	1/8	

1598



No.	L	T	Staking Tools
1598-1	.062	1/32	No.
1598-2	.094	1/16	TL-2
1598-3	.125	3/32	
1598-4	.156	1/8	

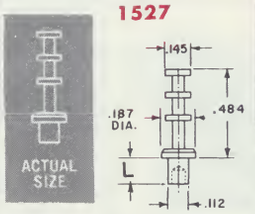
1543



No.	L	T	Staking Tools
1543-1	.078	1/32	No.
1543-2	.109	1/16	TL-8
1543-3	.141	3/32	
1543-4	.172	1/8	

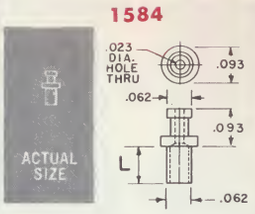
TUBULAR TERMINAL SERIES (HOLLOW)

1527



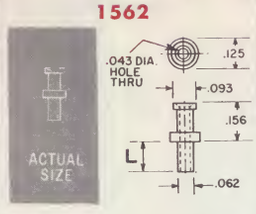
No.	L	T	Staking Tools
1527-1	.078	1/32	No.
1527-2	.109	1/16	TL-8
1527-3	.141	3/32	
1527-4	.172	1/8	

1584



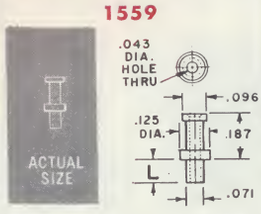
No.	L	T	Staking Tools
1584-1	.045	1/32	No.
1584-2	.094	1/16	TL-1
1584-3	.125	3/32	

1562



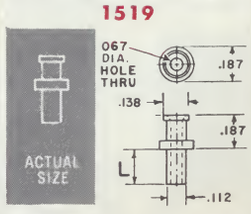
No.	L	T	Staking Tools
1562-1	.054	1/32	No.
1562-2	.084	1/16	TL-2
1562-3	.115	3/32	
1562-4	.147	1/8	

1559



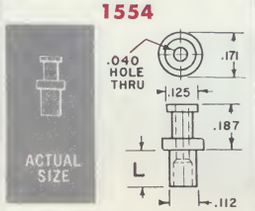
No.	L	T	Staking Tools
1559-1	.062	1/32	No.
1559-2	.094	1/16	TL-2
1559-3	.125	3/32	
1559-4	.156	1/8	

1519



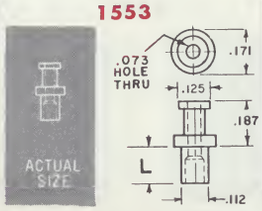
No.	L	T	Staking Tools
1519-1	.078	1/32	No.
1519-2	.109	1/16	TL-8
1519-3	.141	3/32	
1519-4	.172	1/8	

1554



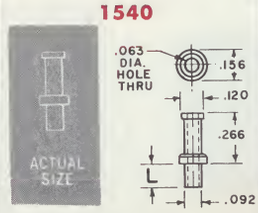
No.	L	T	Staking Tools
1554-1	.078	1/32	No.
1554-2	.109	1/16	TL-8
1554-3	.141	3/32	
1554-4	.172	1/8	

1553



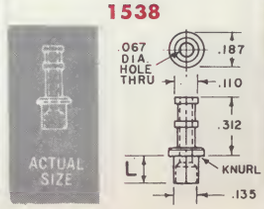
No.	L	T	Staking Tools
1553-1	.078	1/32	No.
1553-2	.109	1/16	TL-8
1553-3	.141	3/32	
1553-4	.172	1/8	

1540



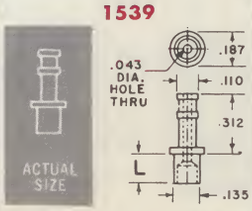
No.	L	T	Staking Tools
1540-2	.109	1/16	No.
1540-3	.141	3/32	TL-5
1540-4	.172	1/8	

1538



No.	L	T	Staking Tools
1538-1	.078	1/32	No.
1538-2	.109	1/16	TL-8
1538-3	.141	3/32	
1538-4	.172	1/8	

1539



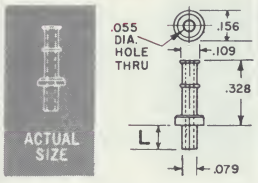
No.	L	T	Staking Tools
1539-1	.078	1/32	No.
1539-2	.109	1/16	TL-8
1539-3	.141	3/32	
1539-4	.172	1/8	

*On Special Order Only

STANDARDIZED TERMINALS

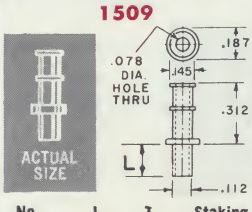
TUBULAR TERMINAL SERIES (HOLLOW)

1582



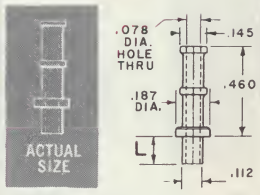
No.	L	T	Staking Tools
1582-1	.075	1/32	No.
1582-2	.105	1/16	TL-5
1582-3	.135	3/32	
1582-4	.165	1/8	

1509



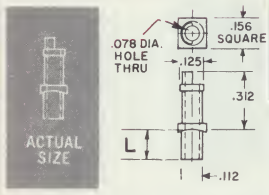
No.	L	T	Staking Tools
1509-1	.078	1/32	No.
1509-2	.109	1/16	TL-8
1509-3	.141	3/32	
1509-4	.172	1/8	
1509-6	.234	3/16	
1509-8	.297	1/4	

1541



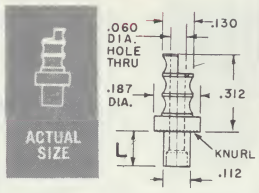
No.	L	T	Staking Tools
1541-2	.109	1/16	No.
1541-3	.141	3/32	TL-8
1541-4	.172	1/8	

1599



No.	L	T	Staking Tools
1599-2	.109	1/16	No.
1599-3	.141	3/32	TL-8
1599-4	.172	1/8	

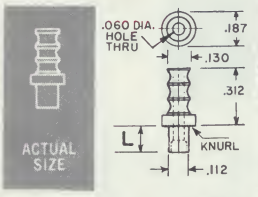
1506



No.	L	T	Staking Tools
1506-1	.078	1/32	No.
1506-2	.109	1/16	TL-8
1506-3	.141	3/32	
1506-4	.172	1/8	

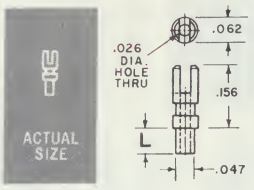
SPLIT TYPE TERMINAL SERIES

1577



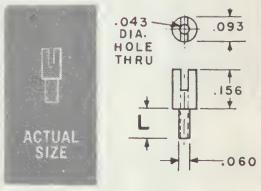
No.	L	T	Staking Tools
1577-2	.109	1/16	No.
1577-3	.141	3/32	TL-8
1577-4	.172	1/8	

1515



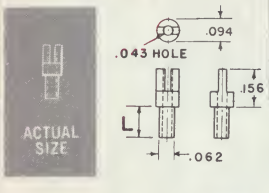
No.	L	T	Staking Tools
1515-1	.051	1/32	*
1515-2	.082	1/16	
1515-3	.113	3/32	
1515-4	.145	1/8	

1533



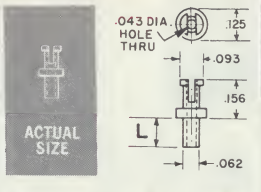
No.	L	T	Staking Tools
1533-1	.054	1/32	*
1533-2	.084	1/16	
1533-3	.115	3/32	
1533-4	.147	1/8	

1526



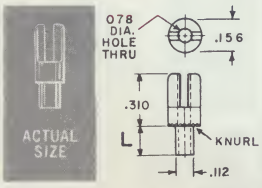
No.	L	T	Staking Tools
1526-1	.054	1/32	No.
1526-2	.084	1/16	TL-3
1526-3	.115	3/32	
1526-4	.147	1/8	

1592



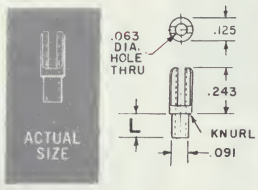
No.	L	T	Staking Tools
1592-1	.051	1/32	No.
1592-2	.082	1/16	TL-2
1592-3	.113	3/32	
1592-4	.145	1/8	

1510



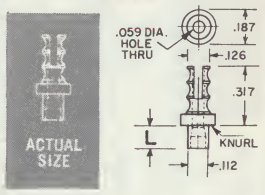
No.	L	T	Staking Tools
1510-1	.078	1/32	No.
1510-2	.109	1/16	TL-9
1510-3	.141	3/32	
1510-4	.172	1/8	

1511



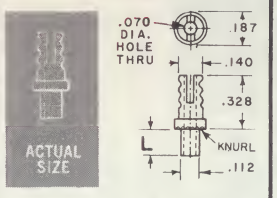
No.	L	T	Staking Tools
1511-1	.078	1/32	No.
1511-2	.109	1/16	TL-3
1511-3	.141	3/32	
1511-4	.172	1/8	

1588



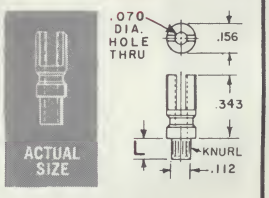
No.	L	T	Staking Tools
1588-1	.078	1/32	No.
1588-2	.109	1/16	TL-8
1588-3	.141	3/32	
1588-4	.172	1/8	

1578



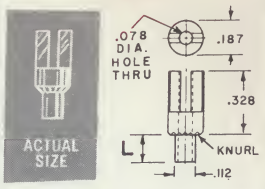
No.	L	T	Staking Tools
1578-1	.078	1/32	No.
1578-2	.109	1/16	TL-8
1578-3	.141	3/32	
1578-4	.172	1/8	

1525



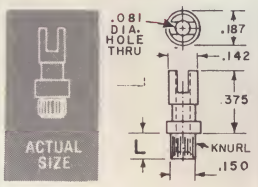
No.	L	T	Staking Tools
1525-2	.109	1/16	No.
1525-3	.141	3/32	TL-9
1525-4	.172	1/8	

1507



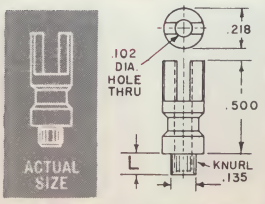
No.	L	T	Staking Tools
1507-1	.078	1/32	No.
1507-2	.109	1/16	TL-9
1507-3	.141	3/32	
1507-4	.172	1/8	

1557



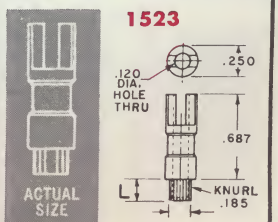
No.	L	T	Staking Tools
1557-2	.109	1/16	*
1557-3	.141	3/32	
1557-4	.172	1/8	

1524



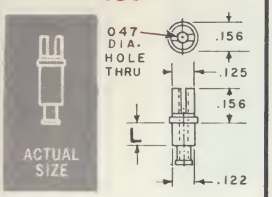
No.	L	T	Staking Tools
1524-2	.109	1/16	*
1524-3	.141	3/32	
1524-4	.172	1/8	

1523



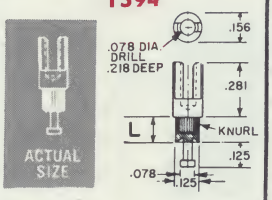
No.	L	T	Staking Tools
1523-3	.141	3/32	*
1523-4	.172	1/8	

1531



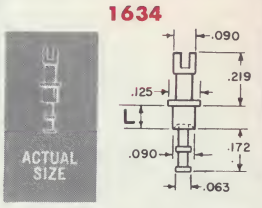
No.	L	T	Staking Tools
1531-1	.062	1/32	*
1531-2	.094	1/16	
1531-3	.125	3/32	
1531-4	.156	1/8	

1594



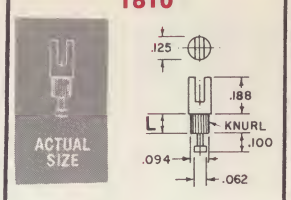
No.	L	T	Staking Tools
1594-2	.105	1/16	No.
1594-3	.135	3/32	TL-17
1594-4	.165	1/8	

1634



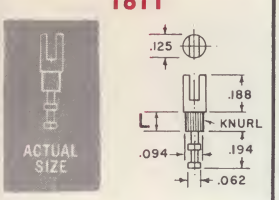
No.	L	T	Staking Tools
1634-1	.075	1/32	No.
1634-2	.105	1/16	TL-10
1634-3	.135	3/32	
1634-4	.165	1/8	

1610



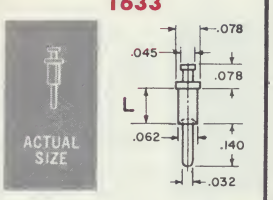
No.	L	T	Staking Tools
1610-2	.094	1/16	*
1610-3	.125	3/32	
1610-4	.156	1/8	

1611



No.	L	T	Staking Tools
1611-2	.094	1/16	*
1611-3	.125	3/32	
1611-4	.156	1/8	

1633



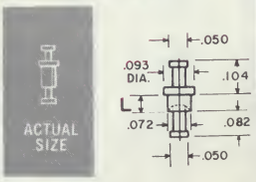
No.	L	T	Staking Tools
1633-1	.051	1/32	*
1633-2	.082	1/16	
1633-3	.113	3/32	
1633-4	.145	1/8	

*On Special Order Only

STANDARDIZED TERMINALS

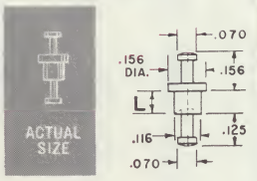
DOUBLE-END TERMINAL SERIES

1574



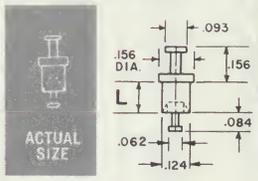
No.	L	T	Staking Tools
1574-1	.051	1/32	No. TL-4
1574-2	.082	1/16	
1574-3	.113	3/32	
1574-4	.145	1/8	

1522



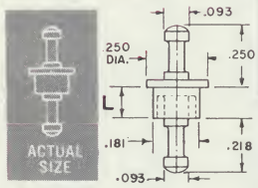
No.	L	T	Staking Tools
1522-1	.062	1/32	No. TL-11
1522-2	.094	1/16	
1522-3	.125	3/32	
1522-4	.156	1/8	

1586



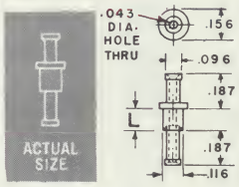
No.	L	T	Staking Tools
1586-1	.075	1/32	No. TL-10
1586-2	.105	1/16	
1586-3	.135	3/32	
1586-4	.165	1/8	

1501



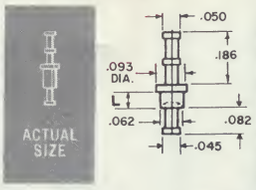
No.	L	T	Staking Tools
1501-1	.078	1/32	No. TL-15
1501-2	.109	1/16	
1501-3	.141	3/32	
1501-4	.172	1/8	

1602



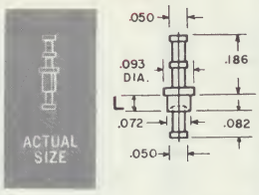
No.	L	T	Staking Tools
1602-1	.062	1/32	*
1602-2	.094	1/16	
1602-3	.125	3/32	
1602-4	.156	1/8	

1613



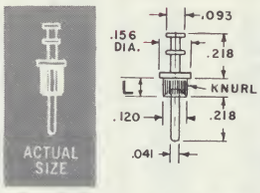
No.	L	T	Staking Tools
1613-1	.051	1/32	No. TL-4
1613-2	.082	1/16	
1613-3	.113	3/32	
1613-4	.145	1/8	

1575



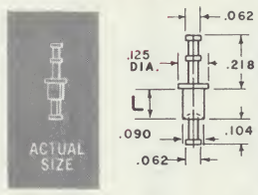
No.	L	T	Staking Tools
1575-1	.051	1/32	No. TL-4
1575-2	.082	1/16	
1575-3	.113	3/32	
1575-4	.145	1/8	

1521



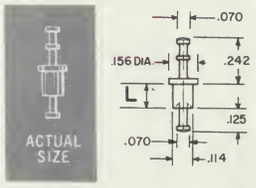
No.	L	T	Staking Tools
1521-1	.062	1/32	No. TL-18
1521-2	.094	1/16	
1521-3	.125	3/32	
1521-4	.156	1/8	

1530



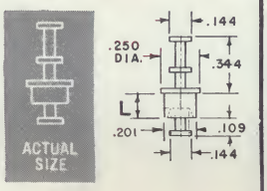
No.	L	T	Staking Tools
1530-1	.062	1/32	No. TL-6
1530-2	.094	1/16	
1530-3	.125	3/16	
1530-4	.156	1/8	

1542



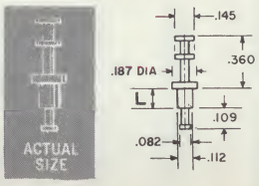
No.	L	T	Staking Tools
1542-1	.075	1/32	No. TL-11
1542-2	.105	1/16	
1542-3	.135	3/32	
1542-4	.165	1/8	

1534



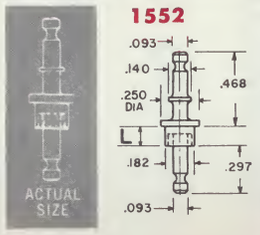
No.	L	T	Staking Tools
1534-1	.062	1/32	*
1534-2	.094	1/16	
1534-3	.125	3/32	
1534-4	.156	1/8	

1551



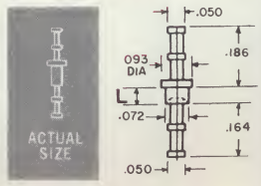
No.	L	T	Staking Tools
1551-2	.105	1/16	No. TL-12
1551-3	.135	3/32	
1551-4	.165	1/8	

1552



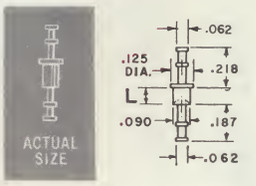
No.	L	T	Staking Tools
1552-2	.109	1/16	No. TL-15
1552-3	.141	3/32	
1552-4	.172	1/8	

1583



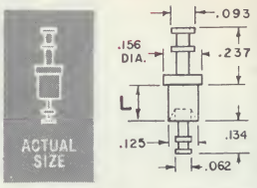
No.	L	T	Staking Tools
1583-1	.051	1/32	No. TL-4
1583-2	.082	1/16	
1583-3	.113	3/32	
1583-4	.145	1/8	

1512



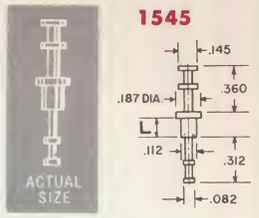
No.	L	T	Staking Tools
1512-1	.062	1/32	No. TL-6
1512-2	.094	1/16	
1512-3	.125	3/32	
1512-4	.156	1/8	

1576



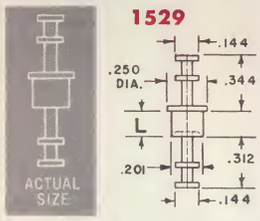
No.	L	T	Staking Tools
1576-1	.075	1/32	No. TL-10
1576-2	.105	1/16	
1576-3	.135	3/32	
1576-4	.165	1/8	

1545



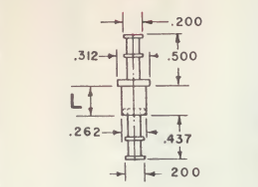
No.	L	T	Staking Tools
1545-2	.105	1/16	No. TL-12
1545-3	.135	3/32	
1545-4	.165	1/8	

1529



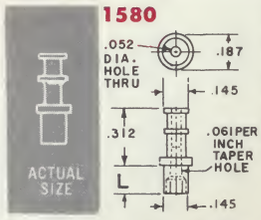
No.	L	T	Staking Tools
1529-2	.094	1/16	*
1529-3	.125	3/32	
1529-4	.156	1/8	
1529-6	.219	3/16	

1518



No.	L	T	Staking Tools
1518-2	.094	1/16	*
1518-3	.125	3/32	
1518-4	.156	1/8	

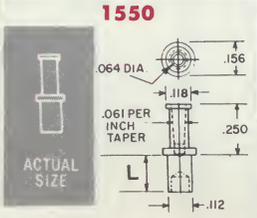
1580



No.	L	T	Staking Tools
1580-1	.078	1/32	*
1580-2	.109	1/16	
1580-3	.141	3/32	
1580-4	.172	1/8	

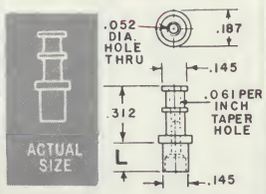
TAPER PIN & PRINTED CIRCUIT SERIES

1550



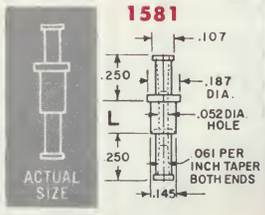
No.	L	T	Staking Tools
1550-1	.078	1/32	No. TL-8
1550-2	.109	1/16	
1550-3	.141	3/32	
1550-4	.172	1/8	

1579



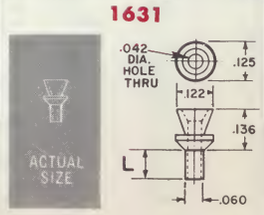
No.	L	T	Staking Tools
1579-1	.078	1/32	*
1579-2	.109	1/16	
1579-3	.141	3/32	
1579-4	.172	1/8	

1581



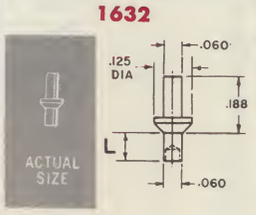
No.	L	T	Staking Tools
1581-1	.062	1/32	*
1581-2	.094	1/16	
1581-3	.125	3/32	
1581-4	.156	1/8	

1631



No.	L	T	Staking Tools
1631-1	.062	1/32	*
1631-2	.094	1/16	
1631-3	.125	3/32	
1631-4	.156	1/8	

1632



No.	L	T	Staking Tools
1632-1	.062	1/32	No. TL-1
1632-2	.094	1/16	
1632-3	.125	3/32	
1632-4	.156	1/8	

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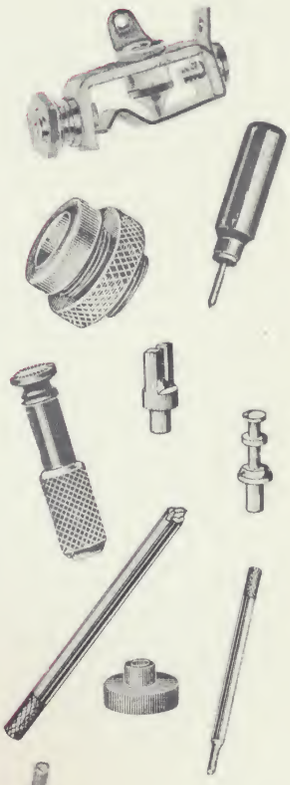
CUSTOM BUILT TERMINAL BOARDS
AND COMPONENT PARTS



FOR EVERY REQUIREMENT — RADIO, FM, TV, AND GOVERNMENT MADE TO YOUR EXACTING SPECIFICATIONS IN ANY QUANTITY. THE MOST SATISFACTORY AND ECONOMICAL WAY FOR MANUFACTURERS TO MEET THEIR PRODUCTION SCHEDULES.

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TERMINALS: MADE TO YOUR SPECIFICATIONS OR USE OUR STANDARD LINE OF TURRET AND EXTRUDED TYPES AS DESCRIBED IN THIS CATALOG.

MARKING: LETTERING OR NUMBERS APPLIED BY SCREEN PRINT, RUBBER STAMP, ENGRAVING, OR HOT STAMPING.

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SPECIAL HARDWARE: WE ARE EQUIPPED TO MANUFACTURE SPECIAL HARDWARE ON SHORT NOTICE.

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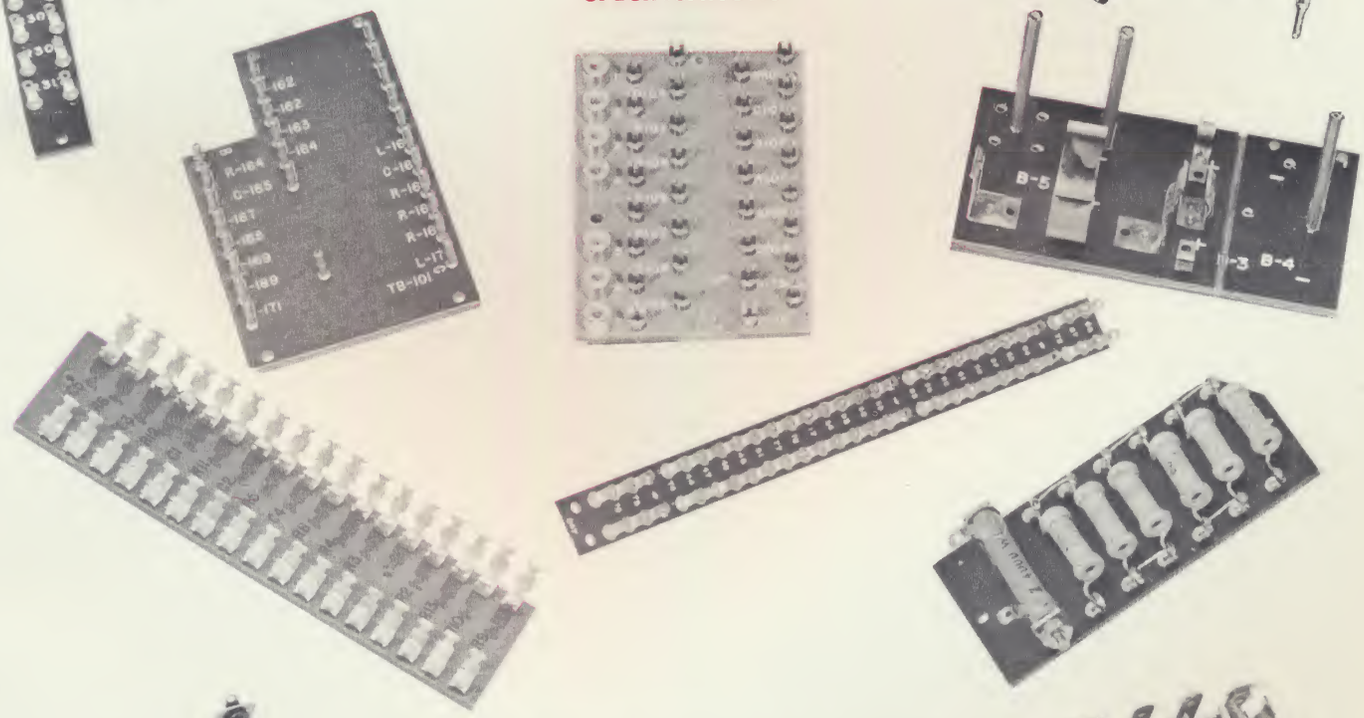
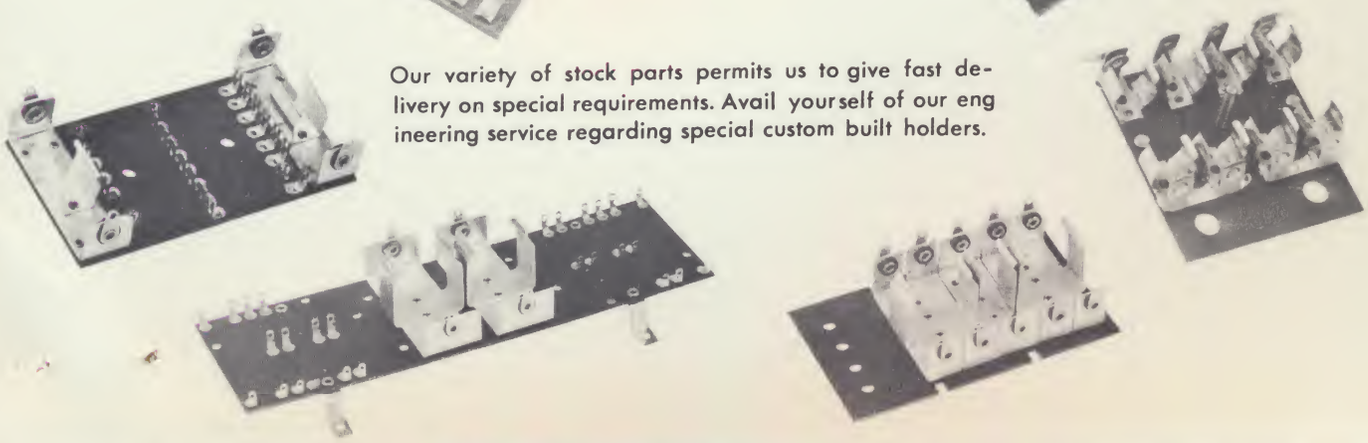
QUOTATIONS SUBMITTED PROMPTLY UPON RECEIPT OF SPECIFICATIONS



Our variety of stock parts permits us to give fast delivery on special requirements. Avail yourself of our engineering service regarding special custom built holders.



DESIGNERS MANUFACTURERS

KEYSTONE

TERMS—1% 10th and 25th, 30 days Net. Open account terms extended to well-rated concerns. Firms without published rating may apply for an open account by submitting 3 trade and bank references.

DELIVERY—F.O.B. New York City plant.

QUOTATIONS—Automatically expire 60 days after date quoted; requoted if requested. We reserve the right to correct clerical or stenographic errors or omissions.

RETURNS—No goods accepted unless you receive written authorization from Keystone Electronics Corp.

Custom Fabricated Parts are not returnable for credit; acceptable for repair or replacement only.

CLAIMS—Must be made by purchaser within 15 days after receipt of shipment.

See UNITED PRICING REPORTS for up-to-date Pricing and revisions.

KEYSTONE

DESIGNERS AND MANUFACTURERS

NET PRICE LIST NO. 678

EFFECTIVE JAN. 1967

Supersedes all previous price lists.
Prices are subject to change without notice.

Minimum Billing Charge for:
Stock Items.....**$10.00** per Order
Custom Fabrications .....**$15.00 per Item**
Tooling and Screens are additional

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

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58	...	...	.90/C	5.50	5.00	8
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80	.07	.06	5.00/C	7
86	.09	.08	7.50/C	7
87	.12	.11	9.75/C	7
88	.13	.12	10.50/C	7
89	.10	.09	8.25/C	7
90	.06	.04	3.00/C	7
91	.07	.05	4.00/C	7
92	.05	.04	3.00/C	7
93	.07	.06	5.00/C	7
94	.08	.07	6.00/C	7
95	.07	.06	5.00/C	7
96	.08	.07	6.75/C	7
97	.09	.08	7.50/C	7
98	.11	.10	9.00/C	7
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137	.23	.21	.18	4
138	.38	.34	.30	4
139	.23	.21	.18	4
CD-139 (12)	.23	.21	...	N. L.
139A	.26	.24	.21	4
140	.38	.34	.30	4
CD-140 (12)	.38	.34	...	N. L.
140A	.41	.37	.33	4
154	.21	.20	.16	4
155	.35	.32	.30	4
156	.49	.44	.39	4
157	.30	.26	.24	4
160	.49	.44	.39	4
161	.30	.26	.24	4
163	.30	.26	.24	4

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
164	.30	.26	.24	...	4
165	.30	.26	.24	...	4
166	.30	.26	.24	...	4
167	.38	.34	.30	...	4
168	.30	.26	.24	...	4
169	.49	.44	.36	...	4
170	.64	.57	.51	...	4
171	.49	.44	.36	...	4
171A	.52	.47	.39	...	4
173	.30	.26	.24	...	4
CD-173 (18)	.30	.26	...	...	N. L.
173P	.30	.29	.27	...	4
174	.38	.34	.30	...	4
CD-174 (18)	.38	.34	...	...	N. L.
175	.30	.26	.24	...	4
CD-175 (12)	.30	.26	...	...	N. L.
176	.38	.34	.30	...	4
CD-176 (8)	.38	.34	...	...	N. L.
177	.30	.26	.24	...	4
178	.38	.34	.30	...	4
179	.30	.26	.24	...	4
182	.64	.57	.51	...	4
182A	.67	.60	.54	...	4
183	.30	.26	.24	...	4
184	.38	.34	.30	...	4
185	.45	.36	.33	...	4
186	.46	.37	.34	...	4
187	.45	.36	.33	...	4
189	.45	.36	.33	...	4
189A	.47	.38	.35	...	4
190	.49	.44	.39	...	4
191	.49	.44	.39	...	4
192	.64	.54	.51	...	4
193	.93	.81	.75	...	4
195	.49	.44	.39	...	4
196	.64	.54	.51	...	4
197	.93	.81	.75	...	4
199	.50	.45	.40	...	4
200	.65	.55	.52	...	4
201	.95	.85	.78	...	4
202	.44	.36	.30	...	N. L.
203P	.44	.36	.30	...	4
CD-203P (12)	.44	.36	...	...	N. L.
205	.95	.85	.78	...	4
206	.04	.03	2.10/C	...	8
207	.04	.03	2.50/C	...	8
208	.05	.04	3.00/C	...	8
209	.06	.05	4.50/C	...	8
212	.16	.14	.13	...	8
213	.18	.16	.14	...	8
214	.20	.17	.15	...	8
215	1.35	1.21	1.07	...	8
216	1.50	1.35	1.28	...	8
217	.18	.14	.12	...	7
218	.20	.15	.13	...	7
219	.22	.16	.14	...	7
222	.46	.41	.36	...	9
223	.50	.45	.39	...	9
225	.21	.20	.18	...	4
226	.35	.32	.30		4
261	.04	.03	2.00/C	12.00	9
262	.04	.03	2.20/C	13.00	9
263	.07	.06	5.00/C	...	9
264	.07	.06	5.00/C	...	9
265	.09	.08	6.70/C	...	9
266	.09	.08	6.70/C	...	9
267	.15	.14	12.50/C	...	9
268	.15	.14	12.50/C	...	9

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
269	.04	.03	2.40/C	17.00	9
270	.05	.03	2.70/C	19.00	9
271	.07	.06	5.00/C	...	9
272	.07	.06	5.00/C	...	9
273	.09	.08	6.70/C	...	9
274	.09	.08	6.70/C	...	9
275	.15	.14	12.50/C	...	9
276	.15	.14	12.50/C	...	9
340	.05	.04	2.00/C	...	35
341	.05	.04	2.00/C	...	35
342	.05	.04	2.00/C	...	35
343	.03	.02	1.00/C	...	35
344	.03	.02	1.00/C	...	35
345	.05	.04	2.00/C	...	35
346	.05	.04	2.00/C	...	35
347	.05	.04	2.00/C	...	35
348	.03	.02	1.00/C	...	35
349	.03	.02	1.00/C	...	35
351	.34	.31	.28	...	33
352	.36	.33	.30	...	33
353	.35	.32	.29	...	33
354	.37	.34	.31	...	33
355	.35	.32	.29	...	33
356	.37	.34	.31	...	33
357	.33	.30	.27	...	33
358	.34	.31	.28	...	33
359	.34	.31	.28	...	33
360	.05	.04	2.60/C	22.00	33
361	.05	.04	3.00/C	25.00	33
362	.06	.05	3.75/C	30.00	33
363	.06	.05	4.20/C	37.00	33
364	.07	.06	5.00/C	42.00	33
365	.08	.07	6.50/C	47.00	33
366	.10	.09	7.80/C	57.00	33
367	.05	.04	2.60/C	22.00	33
368	.05	.04	3.00/C	25.00	33
369	.06	.05	3.75/C	30.00	33
370	.06	.05	4.20/C	37.00	33
371	.07	.06	5.00/C	42.00	33
372	.08	.07	6.50/C	47.00	33
373	.10	.09	7.80/C	57.00	33
374	.08	.07	6.50/C	47.00	33
375	.10	.09	7.80/C	57.00	33
376	.07	.06	5.40/C	38.00	33
377	.08	.07	6.30/C	44.00	33
378	.09	.08	6.85/C	50.00	33
379	.10	.09	8.00/C	56.00	33
380	.11	.10	9.00/C	63.00	33
381	.14	.12	10.00/C	75.00	33
382	.15	.13	11.00/C	86.00	33
383	.07	.06	5.40/C	38.00	33
384	.08	.07	6.30/C	44.00	33
385	.09	.08	6.85/C	50.00	33
386	.10	.09	8.00/C	56.00	33
387	.11	.10	9.00/C	63.00	33
388	.14	.12	10.00/C	75.00	33
389	.15	.13	11.00/C	86.00	33
390	.07	.06	5.40/C	38.00	33
391	.08	.07	6.30/C	44.00	33
392	.09	.08	6.85/C	50.00	33
393	.10	.09	8.00/C	56.00	33
394	.11	.10	9.00/C	63.00	33
395	.14	.12	10.00/C	75.00	33
396	.15	.13	11.00/C	86.00	33
397	.03	.02	1.65/C	13.20	33
398	.03	.02	1.80/C	13.60	33
399	.03	.02	1.80/C	13.90	33
400	.03	.02	1.85/C	14.20	33
401	.03	.02	1.85/C	14.90	33
402	.04	.03	2.00/C	15.60	33
403	.04	.03	2.10/C	16.40	33
405	.03	.02	1.85/C	15.10	33

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
406	.04	.03	2.00/C	15.60	33
407	.04	.03	2.10/C	16.20	33
408	.04	.03	2.20/C	16.70	33
409	.04	.03	2.30/C	17.30	33
410	.04	.03	2.40/C	17.90	33
412	.05	.04	2.45/C	18.80	33
413	.05	.04	2.45/C	19.10	33
414	.05	.04	2.50/C	19.60	33
415	.05	.04	2.60/C	20.50	33
416	.06	.05	2.70/C	21.30	33
417	.06	.05	2.80/C	22.00	33
418	.04	.03	2.20/C	17.00	33
419	.04	.03	2.30/C	17.90	33
420	.05	.04	2.45/C	19.00	33
421	.05	.04	2.90/C	22.70	33
422	.05	.04	3.30/C	26.60	33
425	.05	.04	2.40/C	18.30	33
426	.05	.04	2.45/C	19.20	33
427	.05	.04	2.60/C	19.40	33
428	.05	.04	3.00/C	24.20	33
429	.06	.05	3.50/C	28.00	33
430	.06	.05	3.90/C	32.00	33
432	.05	.04	2.80/C	22.60	33
433	.05	.04	2.90/C	23.00	33
434	.05	.04	3.00/C	24.00	33
435	.06	.05	3.50/C	28.00	33
436	.06	.05	3.90/C	31.80	33
437	.07	.06	4.50/C	36.20	33
438	.07	.06	5.00/C	41.00	33
452	.15	.13	.12	...	23
475	.15	.10	.09	...	23
476	.10	.07	.06	...	23
500	.26	.23	.20	...	28
505	.26	.23	.20	...	28
507	.39	.33	.30	...	28
509	.34	.30	.27	...	28
552	.15	.14	.13	...	23
560	.06	.05	4.20/C	...	28
561	.05	.04	3.60/C	...	28
562	.18	.17	.16	...	28
564	.10	.09	8.10/C	...	28
565	.10	.09	8.10/C	...	28
566	.07	.06	5.40/C	...	28
567	.10	.09	8.10/C	...	28
568	.08	.07	6.60/C	...	28
569	.08	.07	6.60/C	...	28
570	.08	.07	6.60/C	...	28
571	.35	.33	30.00/C	...	28
572	.10	.09	8.10/C	...	28
573	.11	.10	9.25/C	...	28
574	.35	.30	.27	...	28
575	.10	.07	.06	...	23
576	.35	.30	.27	...	28
602-1	.25	.21	.17	...	12
602-2	.29	.25	.21	...	12
602-3	.32	.29	.24	...	12
602-4	.38	.35	.30	...	12
602-5	.44	.40	.36	...	12
602-6	.47	.43	.39	...	12
602-7	.50	.48	.44	...	12
602-8	.55	.50	.48	...	12
602-9	.60	.55	.52	...	12
602-10	.65	.60	.57	...	12
603-1	.26	.22	.18	...	12
603-2	.30	.26	.23	...	12
603-3	.33	.30	.26	...	12
603-4	.39	.36	.32	...	12
603-5	.45	.41	.38	...	12
603-6	.48	.44	.41	...	12
603-7	.52	.50	.46	...	12

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-99 Each	100-240 Each	1M-4M Per M	Page #
603-8	.57	.52	.50	...	12
603-9	.62	.57	.55	...	12
603-10	.67	.62	.60	...	12
604-1	.30	.25	.21	...	12
604-2	.35	.30	.26	...	12
604-3	.39	.34	.30	...	12
604-4	.48	.43	.39	...	12
604-5	.51	.46	.42	...	12
604-6	.57	.52	.48	...	12
604-7	.64	.59	.55	...	12
604-8	.73	.69	.65	...	12
604-9	.80	.73	.69	...	12
604-10	.85	.79	.75	...	12
605-1	.28	.23	.18	...	12
605-2	.32	.27	.23	...	12
605-3	.35	.30	.26	...	12
605-4	.42	.37	.33	...	12
605-5	.47	.42	.38	...	12
605-6	.52	.47	.43	...	12
605-7	.58	.53	.49	...	12
605-8	.63	.58	.54	...	12
605-9	.67	.62	.58	...	12
605-10	.74	.69	.63	...	12
606-1	.25	.21	.17	...	12
606-2	.29	.25	.21	...	12
606-3	.32	.29	.24	...	12
606-4	.38	.35	.30	...	12
606-5	.44	.40	.36	...	12
606-6	.47	.43	.39	...	12
606-7	.50	.48	.44	...	12
606-8	.55	.50	.48	...	12
606-9	.60	.55	.52	...	12
606-10	.65	.60	.57	...	12
607-1	.30	.24	.20	...	12
607-2	.32	.28	.24	...	12
607-3	.35	.31	.27	...	12
607-4	.45	.39	.35	...	12
607-5	.47	.42	.38	...	12
607-6	.53	.49	.45	...	12
607-7	.58	.54	.50	...	12
607-8	.63	.59	.55	...	12
607-9	.68	.64	.60	...	12
607-10	.75	.70	.65	...	12
608-1	.25	.21	.17	...	12
608-2	.29	.25	.21	...	12
608-3	.32	.29	.24	...	12
608-4	.38	.35	.30	...	12
608-5	.44	.40	.36	...	12
608-6	.47	.43	.39	...	12
608-7	.50	.48	.44	...	12
608-8	.55	.50	.48	...	12
608-9	.60	.55	.52	...	12
608-10	.65	.60	.57	...	12
609-1	.26	.22	.18	...	12
609-2	.30	.26	.23	...	12
609-3	.33	.30	.26	...	12
609-4	.39	.36	.32	...	12
609-5	.45	.41	.38	...	12
609-6	.47	.43	.39	...	12
609-7	.50	.48	.44	...	12
609-8	.55	.50	.48	...	12
609-9	.60	.55	.52	...	12
609-10	.65	.60	.57	...	12
610	.05	.03	.02	10.00	30
611	.07	.05	.04	25.00	30
612	.07	.05	.04	25.00	30
613	.05	.04	.03	15.00	30
614	.07	.05	.04	25.00	30
615	.05	.04	.03	15.00	30
616	.07	.05	.04	26.00	30

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-99 Each	100-240 Each	1M-4M Per M	Page #
617	.07	.05	.04	25.00	30
618	.07	.06	.05	35.00	30
619	.05	.04	.03	15.00	30
620	.03	.04	.03	15.00	30
621	.07	.06	.05	35.00	30
622	.10	.09	.07	55.00	30
623	.10	.09	.07	55.00	30
624	.10	.09	.07	55.00	30
625	.11	.10	.08	65.00	30
626	.10	.09	.07	55.00	30
627	.10	.09	.07	55.00	30
628	.05	.04	.03	15.00	30
629	.05	.04	.03	15.00	30
630	.07	.05	.04	25.00	30
631	.07	.05	.04	25.00	30
633	.07	.06	.05	35.00	30
637	.22	.20	.17	...	21
638	.26	.24	.20	...	21
639	1.09	.95	.85	...	21
640	.64	.54	.48	...	21
641	.55	.50	.43	...	21
642	.55	.50	.43	...	21
643	.55	.50	.43	...	21
644	.55	.50	.43	...	21
645	.30	.26	.23	...	21
646	.30	.26	.23	...	21
647	.27	.25	.21	...	21
648	.27	.25	.21	...	21
649	.80	.68	.60	...	21
650	1.10	.95	.90	...	21
651	.55	.51	.46	...	23
653	.43	.37	.34	...	23
654	.55	.48	.43	...	23
655	.45	.39	.34	...	23
656	.65	.56	.49	...	23
657	.65	.60	.55	...	23
658	1.00	.90	.85	...	23
659	1.05	.92	.87	...	23
660	.59	.49	.47	...	21
661	.64	.54	.52	...	21
662	.55	.45	.43	...	21
663	.59	.49	.47	...	21
664	.64	.54	.52	...	21
665	.55	.45	.43	...	21
666	.40	.34	.30	...	21
667	.40	.34	.30	...	21
668	.74	.70	.65	...	21
669	.64	.54	.52	...	21
670	.30	.26	.23	...	21
671	.37	.31	.29	...	21
672	.30	.26	.23	...	21
673	.30	.26	.23	...	21
674	.37	.31	.29	...	21
675	.15	.14	.13	...	21
676	.27	.25	.21	...	23
677	.74	.70	.65	...	21
678	.74	.70	.65	...	21
679	.40	.34	.30	...	21
680	.40	.34	.30	...	21
681	.33	.30	.27	...	21
682	.42	.38	.33	...	21
683	.42	.38	.33	...	21
684	.58	.51	.44	...	21
685	.39	.32	.30	...	21
686	.45	.39	.34	...	21
687	.64	.54	.48	...	21
688	...	...	1.35/C	9.50	21
689	...	...	1.35/C	9.50	21
690	.45	.39	.34	...	21
691	.77	.66	.58	...	21

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-9M Per M	Page #
692	.20	.15	.12	...	...	21
693	.20	.15	.12	...	...	21
694	.23	.18	.15	...	...	21
695	.20	.15	.12	...	...	21
696	.22	.17	.14	...	...	21
697	.22	.17	.14	...	...	21
698	.25	.20	.17	...	...	21
699	.22	.17	.14	...	...	21
700	.65	.59	.56	...	...	26
701	.90	.85	.82	...	...	26
702	1.59	1.43	1.40	...	...	26
703	.60	.50	.45	...	...	26
704	.65	.59	.56	...	...	26
1101	.35	.30	.26	...	...	6
1103	.35	.30	.26	...	...	6
1104	.35	.30	.26	...	...	6
1109	.35	.30	.26	...	...	6
1110	.35	.30	.26	...	...	6
1113	.35	.30	.26	...	...	6
1114	.35	.30	.26	...	...	6
1116	.35	.30	.26	...	...	6
1119	.35	.30	.26	...	...	6
1120	.40	.38	.34	...	...	6
1121	.40	.38	.34	...	...	6
1125	.35	.30	.26	...	...	6
1132	.35	.30	.26	...	...	6
1133	.40	.38	.34	...	...	6
1134	.35	.30	.26	...	...	6
1135	.35	.30	.26	...	...	6
1139	.25	.23	.21	...	...	2
1142	.25	.23	.21	...	...	6
1144	.25	.23	.21	...	...	6
1145	.35	.30	.26	...	...	6
1162	.60	.54	.49	...	...	2
1173	.35	.30	.26	...	...	2
1175	.35	.30	.26	...	...	2
1179	.35	.30	.26	...	...	2
1185	.50	.45	.41	...	...	2
1186	.48	.44	.40	...	...	2
1189	.40	.38	.34	...	...	2
1191	.45	.41	.36	...	...	2
1194	.50	.48	.44	...	...	2
1195	.50	.48	.44	...	...	2
1198	.55	.51	.47	...	...	2
1199	.55	.51	.47	...	...	2
1200	...	...	1.60C	14.20	...	34
1201	...	...	1.60C	14.20	...	34
1202	...	...	.60C	4.25	...	N. L.
1203	...	...	8.40C	60.00	...	35
1204	...	...	.60C	4.25	...	13
1204-10	.30	.27	.25	...	...	13
1204-12	.40	.35	.31	...	...	13
1204-19	.50	.45	.41	...	...	13
1204-20	.60	.54	.49	...	...	13
1204-22	.65	.57	.51	...	...	13
1204-28	.70	.65	.58	...	...	13
1204-38	1.00	.94	.82	...	...	13
1209	.07	.06	5.40C	37.50	...	35
1210	...	...	1.60C	14.20	...	34
1213	1.25	1.00	...	...	...	19
1214	.85	.75	...	...	...	19
1215	...	...	3.25C	22.50	...	35
1216	.08	.07	6.50C	55.00	...	35
1217	...	...	.60C	4.00	...	N. L.
1218	.05	.04	3.00C	23.00	...	34

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-9M Per M	Page #
1219	...	...	1.25C	7.90	...	34
1220-1	.09	.08	.07	...	...	15
1220-2	.12	.11	.09	...	...	15
1220-3	.15	.13	.12	...	...	15
1220-4	.16	.14	.13	...	...	15
1220-5	.17	.15	.14	...	...	15
1220-6	.20	.18	.16	...	...	15
1220-7	.22	.19	.17	...	...	15
1220-8	.23	.20	.18	...	...	15
1220-9	.25	.24	.22	...	...	15
1220-10	.27	.25	.24	...	...	15
1221	...	...	.75C	6.50	...	35
1222	...	...	.75C	6.50	...	N. L.
1223	...	...	1.60C	14.20	...	34
1224	...	...	1.75C	15.00	...	34
1226	...	...	2.00C	16.00	...	34
1228	...	...	.75C	5.00	...	N. L.
1229	...	...	.60C	4.00	...	N. L.
1230	...	...	1.75C	15.00	...	34
1231	...	...	2.00C	16.00	...	34
1232	...	...	3.25C	24.00	...	35
1236	...	...	1.75C	12.00	10.00	19
1237	...	...	1.75C	12.00	10.00	19
1238	...	...	1.75C	12.00	10.00	19
1239-10	.50	.46	.42	...	...	13
1239-12	.60	.55	.51	...	...	13
1239-19	.85	.80	.76	...	...	13
1239-20	.90	.85	.81	...	...	13
1239-22	.95	.90	.86	...	...	13
1239-28	1.20	1.10	1.03	...	...	13
1239-38	1.50	1.40	1.35	...	...	13
1240	...	...	1.60/C	13.00	...	34
1241	...	...	.75/C	4.25	...	N. L.
1242	...	...	1.60/C	13.00	...	34
1243	...	...	2.50/C	19.00	...	34
1244	...	...	1.80/C	13.50	...	34
1245	...	...	2.00/C	14.00	...	34
1246	...	...	2.20/C	17.00	...	34
1247	...	...	2.20/C	17.00	...	34
1248	...	...	3.25/C	24.00	...	35
1250	...	...	.60/C	4.00	...	N. L.
1253	...	...	1.25/C	8.50	...	14
1254	...	...	1.35/C	10.00	...	14
1255	...	...	1.35/C	10.00	...	14
1256	...	...	3.30/C	21.00	...	14
1257	...	...	3.75/C	24.00	...	14
1258	...	...	3.75/C	24.00	...	14
1259	...	...	5.50/C	40.00	...	35
1260	...	...	5.50/C	40.00	...	35
1266	...	...	.75/C	4.25	...	N. L.
1268	...	...	.75/C	4.25	...	13
1268-10	.40	.35	.31	...	...	13
1268-12	.50	.45	.41	...	...	13
1268-19	.60	.57	.51	...	...	13
1268-20	.75	.67	.60	...	...	13
1268-22	.80	.73	.65	...	...	13
1268-28	.85	.76	.68	...	...	13
1268-38	1.35	1.15	1.00	...	...	13
1270	.55	.52	.49	...	...	N. L.
1271	.18	.15	.13	...	...	N. L.
1276	...	...	.75/C	4.25	...	N. L.
1277	...	...	3.50/C	30.00	...	35
1294	...	...	.75/C	4.25	...	N. L.
1301	3.10	...	...	...	...	36
1302	3.10	...	...	...	...	36

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
1304	1.50	...	...	...	36
1305	1.50	...	...	...	36
1306	1.50	...	...	...	36
1307	1.50	...	...	...	36
1309	1.25	...	...	...	36
1310	2.50	...	...	...	36
1311	2.50	...	...	...	36
1312	2.50	...	...	...	36
1313	2.50	...	...	...	36
1315	1.25	...	...	...	36
1316	1.25	...	...	...	36
1321	.35	...	...	...	36
1322	.50	...	...	...	19
1323	.75	...	...	...	19
1324	1.50	...	...	...	36
1325	1.50	...	...	...	36
1326	1.50	...	...	...	36
1327	2.00	...	...	...	36
1328	12.50	...	...	...	36
1330	10.50	...	...	...	26
1331	1.85	...	...	...	26
1332	1.85	...	...	...	26
1333	1.85	...	...	...	26
1334	1.85	...	...	...	26
1335	1.85	...	...	...	26
1336	1.85	...	...	...	26
1337	1.85	...	...	...	26
1338	1.85	...	...	...	26
1400	.75	.68	.60	...	20
1401	.82	.74	.66	...	20
1402	.64	.54	.48	...	20
1407	...	...	2.60/C	22.00	27
1408	...	...	2.25/C	17.00	27
1409	...	...	2.50/C	19.00	27
1410	.15	.10	.09	...	27
1411	.15	.10	.09	...	27
1412	...	...	2.50/C	19.00	27
1414	...	...	2.00/C	18.00	27
1415	...	...	2.00/C	18.00	27
1416	.15	.10	.09	...	27
1417	.20	.19	.17	...	27
1420	.15	.10	.09	...	27
1422	.15	.10	.09	...	27
1427	.20	.18	.16	...	27
1449	...	...	2.10/C	14.90	27
1450	.06	.05	4.20/C	33.00	32
1450A	.06	.05	4.20/C	33.00	32
1450B	.07	.06	5.25/C	38.00	32
1450C	.08	.07	6.30/C	42.00	32
1450D	.09	.08	7.00/C	49.00	32
1450E	.09	.08	7.80/C	60.00	32
1451A	.06	.05	4.20/C	33.00	32
1451B	.07	.06	5.25/C	38.00	32
1451C	.08	.07	6.30/C	42.00	32
1451D	.08	.07	6.80/C	45.00	32
1451E	.09	.08	7.00/C	49.00	32
1452A	.09	.08	6.70/C	48.00	32
1452B	.10	.09	7.85/C	58.00	32
1452C	.12	.11	9.70/C	60.00	32
1452D	.12	.11	10.40/C	68.00	32
1452E	.14	.13	12.50/C	80.00	32
1453	.25	.20	.18	...	27
1454A	.05	.04	3.25/C	27.00	32
1454B	.06	.05	4.30/C	31.00	32
1454C	.06	.06	5.50/C	39.00	32
1454D	.07	.07	6.30/C	45.00	32
1454E	.08	.08	7.20/C	52.00	32
1455	.14	.10	6.00/C	38.00	27
1456	...	...	2.25/C	16.60	27
1457A	.05	.04	3.25/C	27.00	32

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-9M Per M	Page #
1457B	.06	.05	4.30C	31.00	...	32
1457C	.06	.06	5.50C	39.00	...	32
1457D	.07	.07	6.30C	45.00	...	32
1457E	.08	.08	7.20C	52.00	...	32
1458	.04	.03	2.00C	16.00	...	27
1459	.05	.04	3.30C	27.00	...	27
1464	.36	.36	...	...	...	33
1465	.36	.36	...	...	...	33
1466	.36	.36	...	...	...	33
1467	.36	.36	...	...	...	33
1470	.30	.25	...	...	...	27
1471	.04	.03	2.00C	16.00	...	27
1472	.04	.03	2.00C	16.00	...	27
1473	.04	.03	2.00C	16.00	...	27
1474A	.06	.05	4.20C	33.00	...	32
1474B	.07	.06	5.25C	38.00	...	32
1474C	.08	.07	6.30C	42.00	...	32
1474D	.09	.08	7.00C	49.00	...	32
1474E	.09	.08	7.80C	60.00	...	32
1480	.05	.04	3.25C	27.00	...	32
1481	.06	.05	4.30C	31.00	...	32
1482	.06	.06	5.50C	39.00	...	32
1483	.07	.07	6.30C	45.00	...	32
1484	.08	.08	7.20C	52.00	...	32
1489	...	...	2.50C	26.00	...	27
1490	.05	.04	2.60C	22.00	...	33
1491	.05	.04	3.00C	25.00	...	33
1492	.06	.05	3.75C	30.00	...	33
1493	.06	.05	4.20C	37.00	...	33
1494	.07	.06	5.00C	42.00	...	33
1496	.42	.29	.19	...	...	33
1497	.05	.04	.03	20.00	...	27
1498CP	.09	.08	7.00C	50.00	...	19
1498PK	1.40	...	...	...	...	N. L.
1498SP	.10	.09	8.00C	55.00	...	19
1499FT	...	...	1.50C	11.00	9.90	19
1499PK	1.50	...	...	...	...	N. L.
1499SP	...	...	1.75C	12.00	10.75	19
1500	...	...	1.75C	15.70	13.20	19
1501	...	...	2.95C	28.00	24.00	41
1502	...	...	1.10C	8.80	8.00	39
1503	...	...	1.60C	14.00	13.00	39
1504	...	...	1.80C	16.00	14.00	39
1505	...	...	2.30C	20.00	18.00	39
1506	...	...	2.20C	16.35	15.85	40
1507	...	...	2.30C	18.50	16.90	40
1508	...	...	1.30C	10.20	9.40	39
1509	...	...	1.60C	12.95	11.80	40
1510	...	...	2.00C	18.40	17.30	40
1511	...	...	2.10C	19.80	16.50	40
1512	...	...	1.80C	15.30	14.60	41
1514	...	...	1.60C	14.80	13.40	39
1515	...	...	1.80C	16.00	14.80	40
1518	...	...	6.80C	61.00	50.00	41
1519	...	...	1.60C	14.50	13.20	39
1520	...	...	1.15C	9.40	8.50	39
1521	...	...	2.25C	18.60	16.85	41
1522	...	...	1.80C	14.10	13.20	41
1523	...	...	5.90C	49.20	43.50	40
1524	...	...	3.85C	34.75	32.00	40
1525	...	...	2.60C	21.90	19.90	40
1526	...	...	1.40C	11.40	11.20	40
1527	...	...	2.85C	23.50	22.65	39
1528	...	...	1.05C	8.75	8.00	39
1529	...	...	3.96C	33.20	32.00	41
1530	...	...	1.60C	14.40	13.30	41
1531	...	...	2.85C	25.00	23.00	40
1532	...	...	1.75C	15.00	13.50	39
1533	...	...	1.40C	12.50	11.40	40
1534	...	...	3.10C	27.10	25.30	41

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-9M Per M	Page #
1535	...	...	5.75C	52.80	46.40	35
1536	...	...	6.10C	55.00	49.20	35
1537	...	...	5.60C	49.75	43.00	35
1538	...	...	2.25C	18.60	16.85	39
1539	...	...	2.25C	18.60	16.85	39
1540	...	...	2.20C	18.50	16.50	39
1541	...	...	3.50C	32.50	29.20	40
1542	...	...	3.00C	27.00	25.00	41
1543	...	...	2.55C	21.60	19.50	39
1544	...	...	4.00C	35.00	34.00	41
1545	...	...	3.85C	33.00	31.00	41
1546	...	...	5.25C	38.00	34.00	32
1547	.05	.04	3.80C	31.00	...	32
1547A	.05	.04	3.80C	31.00	...	32
1547B	.06	.05	4.90C	36.00	...	32
1547C	.08	.07	6.00C	40.00	...	32
1547D	.09	.08	6.80C	48.00	...	32
1547E	.10	.09	7.30C	56.00	...	32
1548A	.05	.04	3.80C	31.00	...	32
1548B	.06	.05	4.70C	36.00	...	32
1548C	.08	.07	6.00C	40.00	...	32
1548D	.09	.08	6.50C	43.00	...	32
1548E	.09	.08	6.80C	48.00	...	32
1548F	.10	.09	7.30C	56.00	...	32
1549A	.08	.07	6.35C	44.00	...	32
1549B	.09	.08	7.35C	51.00	...	32
1549C	.10	.09	8.00C	58.00	...	32
1549D	.11	.10	9.00C	64.00	...	32
1549E	.12	.11	10.50C	77.00	...	32
1550	...	...	4.00C	36.00	34.00	41
1551	...	...	3.50C	28.00	25.00	41
1552	...	...	5.20C	47.00	42.00	41
1553	...	...	1.75C	16.70	15.35	39
1554	...	...	1.75C	16.70	15.35	39
1555	...	...	3.15C	27.50	24.00	N. L.
1556	.10	.09	.07	55.00	...	30
1557	...	...	3.00C	24.00	23.00	40
1558	...	...	3.10C	24.80	23.60	35
1559	...	...	1.40C	12.70	11.30	39
1560	...	...	4.75C	37.00	33.00	32
1561	...	...	5.80C	41.00	37.00	32
1562	...	...	1.50C	13.85	12.25	39
1563	...	...	2.75C	24.00	21.00	35
1564	.10	.09	.08	60.00	...	30
1565	.09	.08	.07	60.00	...	30
1566	.10	.09	.08	65.00	...	30
1567	.09	.08	.07	60.00	...	30
1568	.09	.08	.07	60.00	...	30
1569	.10	.09	.08	65.00	...	30
1570	.09	.08	.07	60.00	...	30
1571	.09	.08	.07	60.00	...	30
1572	...	...	1.10C	9.70	8.70	39
1573	...	...	1.15C	10.00	9.00	39
1574	...	...	1.35C	11.75	10.70	41
1575	...	...	1.80C	12.75	11.75	41
1576	...	...	2.25C	18.25	17.00	41
1577	...	...	2.50C	21.75	18.80	40
1578	...	...	2.25C	21.20	18.20	40
1579	...	...	3.00C	27.00	24.00	41
1580	...	...	3.90C	34.00	30.00	41
1581	...	...	4.80C	44.00	39.00	41
1582	...	...	2.40C	20.20	18.10	40
1583	...	...	1.80C	15.30	14.00	41
1584	...	...	1.40C	12.80	11.60	39
1585	...	...	5.75C	50.00	48.70	39
1586	...	...	2.40C	20.00	19.00	41
1587	...	...	2.70C	23.00	21.75	35
1588	...	...	2.30C	20.00	17.75	40
1589	.07	.06	5.00C	45.00	40.00	32
1590	.07	.06	5.40C	46.00	41.00	32

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Cat. #	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-9M Per M	Page #
1591	.07	.06	5.85C	46.75	41.50	32
1592	...	...	2.40C	22.00	19.00	40
1593	...	...	1.80C	14.60	13.75	39
1594	...	...	4.10C	35.00	33.00	40
1595	...	...	2.70C	22.20	20.10	35
1596	.09	.08	6.90C	57.00	48.00	32
1598	...	...	1.50C	13.25	12.10	39
1599	...	...	3.50C	31.00	29.00	40
1600	...	...	1.50C	14.00	...	29
1601	...	...	2.10C	21.00	...	29
1602	...	...	4.50C	38.60	35.40	41
1604	.09	.08	7.00C	46.00	...	32
1605	.09	.08	7.40C	48.00	...	32
1608	.10	.09	8.00C	60.00	...	32
1609	.11	.10	9.00C	67.00	...	32
1610	...	...	4.00C	29.00	26.00	40
1611	...	...	4.00C	29.00	26.00	40
1612	...	...	5.00C	39.00	36.00	32
1613	...	...	1.80C	12.75	11.75	41
1615	.15	.14	13.20C	...	...	29
1616	.15	.14	13.20C	...	...	29
1617	.17	.16	15.00C	...	...	29
1618	.17	.16	15.00C	...	...	29
1620	.07	.06	5.25C	40.00	...	32
1621	.07	.06	5.25C	42.00	...	32
1622	.08	.07	6.00C	44.00	...	32
1623	.09	.08	7.00C	46.00	...	32
1624	.09	.08	7.40C	48.00	...	32
1625	.10	.09	8.00C	60.00	...	32
1627	.07	.06	5.25C	40.00	...	32
1628	.07	.06	5.75C	45.00	...	32
1629	.09	.08	7.00C	47.00	...	32
1630	.11	.10	9.00C	77.00	...	32
1631	...	...	1.70C	13.95	12.90	41
1632	...	...	1.70C	13.95	12.90	41
1633	...	...	1.70C	13.95	12.90	40
1634	...	...	2.60C	22.10	20.35	40
1635	.09	.08	7.50C	62.00	...	32
1636	.18	.16	.15	110.00	...	32
1637	.19	.17	.16	120.00	...	32
1638	.25	.22	.20	130.00	...	32
1639	.25	.22	.21	140.00	...	32
1641	...	...	1.00C	6.00	...	15
1642	.35	.30	.25	150.00	...	32
1643	.40	.35	.30	160.00	...	32
1644	.40	.35	.30	.23	...	33
1645	.45	.40	.33	.24	...	33
1646	.50	.45	.37	.26	...	33
1647	.42	.38	.35	...	...	30
1648	.50	.45	.40	...	...	30
1649	.58	.51	.45	...	...	30
1650	...	...	5.25C	38.00	34.00	32
1651	...	...	5.80C	41.00	37.00	32
1652	.11	.10	9.00C	67.00	...	32
1653	.07	.06	5.25C	40.00	...	32
1654	.09	.08	7.50C	54.00	...	32
1655	.10	.09	8.50C	62.00	...	32
1656	.07	.06	5.75C	40.00	...	32
1656A	.08	.07	6.75C	47.00	...	32
1656B	.09	.08	7.80C	58.00	...	32
1657	.07	.06	5.50C	38.00	...	32
1657A	.08	.07	6.50C	46.00	...	32
1657B	.09	.08	7.30C	56.00	...	32
1658	...	...	3.00C	25.00	...	35
1660	.17	.16	.15	...	...	29
1661	.17	.16	.15	...	...	29
1670	.17	.16	.15	...	...	29
1671	.17	.16	.15	...	...	29
1680	.11	.10	9.60C	...	...	29
1681	.13	.12	11.40C	...	...	29

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-9M Per M	Page #
1690	.12	.11	10.20C	...	...	
1691	.14	.13	12.00C	...	...	
1692A	.05	.04	3.80C	31.00	...	
1692B	.06	.05	4.90C	36.00	...	
1692C	.08	.07	6.00C	42.00	...	
1692D	.09	.08	6.80C	48.00	...	
1692E	.10	.09	7.30C	56.00	...	
1700	.19	.17	.15	...	...	
1701	.20	.18	.16	...	...	
1702	.30	.28	.26	...	...	
1703	.15	.14	.13	...	...	
1707	23.50	...	...	...	...	
1713	25.00	...	...	...	...	
1714	1.50	1.25	...	...	...	
1715	1.50	1.25	...	...	...	
1716	1.50	1.25	...	...	...	
1717	1.50	1.25	...	...	...	
1719	1.50	1.25	...	...	...	
1721	6.50	5.00	...	...	...	
1722	1.50	1.25	...	...	...	
1723	17.00	...	...	...	...	
1726	1.50	1.25	...	...	...	
1730	.33	.30	.27	...	...	
1730EP	.44	.41	.37	...	...	
1731	.30	.27	.25	...	...	
1732	1.30	1.17	1.05	...	...	
1733	1.90	1.68	1.58	...	...	
1734	.39	.35	.33	...	...	
1735	.53	.48	.43	...	...	
1736	1.62	1.46	1.35	...	...	
1737	.39	.35	.33	...	...	
1738	.45	.41	.38	...	...	
1739	1.20	1.10	1.05	...	...	
1740	.52	.47	.43	...	...	
1740EP	.75	.68	.63	...	...	
1741	.60	.52	.47	...	...	
1741EP	.90	.80	.75	...	...	
1742	1.60	1.44	1.34	...	...	
1742EP	2.73	2.46	2.29	...	...	
1743	.40	.36	.32	...	...	
1744	.45	.40	.36	...	...	
1745	1.20	1.08	.97	...	...	
1746	.55	.50	.45	...	...	
1746EP	.78	.63	.60	...	...	
1747	.59	.53	.48	...	...	
1747EP	.84	.76	.71	...	...	
1748	1.50	1.35	1.21	...	...	
1748EP	2.65	2.40	2.25	...	...	
1749	.48	.43	.40	...	...	
1749EP	.74	.67	.59	...	...	
1750	.25	.22	.20	...	...	
1751	.31	.28	.26	...	...	
1752	.25	.22	.20	...	...	
1752EP	.46	.41	.37	...	...	
1753	.37	.33	.30	...	...	
1753EP	.65	.58	.52	...	...	
1754	.55	.51	.46	...	...	
1754EP	.80	.75	.70	...	...	
1756	.84	.76	.71	...	...	
1756EP	1.40	1.26	1.18	...	...	
1757	2.45	2.20	2.05	...	...	
1757EP	4.35	3.95	3.65	...	...	
1758	.12	.10	.09	...	...	
1758EP	.18	.16	.14	...	...	
1759	.17	.15	.14	...	...	

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
1759EP	.30	.27	.25	17
1760	.21	.19	.18	17
1760EP	.33	.30	.28	17
1761	.39	.35	.33	16
1762	.84	.76	.71	16
1763	1.90	1.68	1.58	16
1765	.46	.41	.37	17
1766	.62	.56	.50	17
1767	1.30	1.17	1.05	17
1768	2.13	1.92	1.73	17
1770	.57	.51	.46	17
1771	1.75	1.57	1.41	17
1772	2.72	2.43	2.21	17
1773	.62	.56	.50	16
1773EP	.95	.85	.80	16
1774	.72	.65	.58	16
1774EP	1.25	1.10	.95	16
1775	1.05	.94	.85	16
1775EP	1.90	1.75	1.60	16
1776	1.20	1.10	1.05	16
1776EP	2.06	1.85	1.73	16
1777	1.15	1.03	.93	16
1777EP	2.13	1.92	1.73	16
1778	1.90	1.68	1.58	16
1778EP	3.17	2.85	2.66	16
1779	1.20	1.10	1.05	16
1779EP	2.06	1.85	1.73	16
1780	1.25	1.13	1.01	16
1780EP	1.80	1.60	1.50	16
1781	1.90	1.68	1.58	16
1781EP	3.17	2.85	2.66	16
1782	.68	.62	.56	17
1783	.82	.74	.67	17
1783EP	1.40	1.25	1.15	17
1784	.72	.65	.59	17
1785	.42	.38	.34	17
1786	.84	.76	.72	17
1787	2.10	1.89	1.78	17
1788	.93	.84	.76	17
1789	.96	.87	.80	17
1790	.44	.40	.34	17
1791	.72	.65	.63	17
1792	1.89	1.70	1.59	17
1793	3.70	3.35	3.10	17
1794	2.70	2.43	2.29	17
1795	5.44	4.90	4.59	17
1796EP	.40	.36	.34	17
1797EP	.66	.61	.55	17
1798EP	.70	.63	.59	17
1801EP	.70	.63	.59	17
1802EP	1.40	1.26	1.19	17
1803EP	.72	.65	.60	17
1804EP	1.25	1.13	1.06	17
1805EP	2.06	1.85	1.74	17
1806	.43	.39	.36	17
1807	1.44	1.30	1.19	17
1808EP	2.00	1.80	1.70	17
1809EP	3.17	2.86	2.67	17
1810	1.00	1.00	.85	24
1811	.80	.80	.65	24
1812	.16	.14	.12	16
1813	.35	.31	.29	16
1814	.66	.61	.55	17
1814EP	.90	.81	.76	17
1815	.40	.32	.29	N. L.
1816	1.21	1.09	1.02	17
1816EP	1.95	1.75	1.65	17
1817	1.25	1.15	1.05	17
1817EP	2.10	1.90	1.75	17
1818	.68	.61	.55	16

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
1819	.92	.83	.76	16
1820	.99	.91	.80	16
1821	1.85	1.85	1.50	N. L.
1824	.45	.40	.38	N. L.
1825	.70	.63	.59	16
1826	.75	.68	.63	16
1827	1.60	1.44	1.36	16
1828	1.20	1.08	1.02	16
1829	1.90	1.71	1.61	16
1830	4.27	3.82	3.57	16
1831	3.25	2.90	2.76	16
1832	1.65	1.48	1.40	16
1833	5.05	4.55	4.29	16
1834	1.60	1.44	1.36	16
1835	.36	.32	.29	16
1835EP	.56	.50	.46	16
1836	1.01	.91	.85	16
1837	1.10	.99	.92	16
1838	.45	.41	.38	16
1839	.55	.50	.46	16
1840	.26	.25	.24	29
1841	.26	.25	.24	29
1842	.29	.28	.27	29
1843	.29	.28	.27	29
1844	.48	.43	.38	16
1845	.60	.54	.51	16
1846	1.12	1.01	.93	16
1847	1.24	1.12	1.02	16
1848	.60	.54	.51	16
1849	.34	.32	.30	29
1850	.34	.32	.30	29
1851	.37	.35	.33	29
1852	.37	.35	.33	29
1853	.88	.79	.72	16
1854	1.75	1.57	1.48	16
1855	1.94	1.75	1.61	16
1856	2.30	2.07	1.95	16
1857	1.08	.97	.89	16
1858	1.52	1.37	1.28	16
1859	2.30	2.07	1.95	16
1860	.29	.28	.27	29
1861	.29	.28	.27	29
1862	.29	.28	.27	29
1863	.29	.28	.27	29
1864	3.82	3.44	3.23	16
1865	4.50	4.05	3.82	16
1866	2.20	1.98	1.87	16
1867	3.08	2.77	2.59	16
1868	.60	.54	.51	16
1868EP	1.16	1.04	.97	16
1869	.76	.68	.63	16
1869EP	1.42	1.28	1.19	16
1870	1.32	1.19	1.10	16
1871	1.67	1.50	1.40	16
1872	1.89	1.71	1.57	16
1873	3.60	3.24	3.06	16
1874	2.70	2.43	2.29	16
1875	5.44	4.90	4.59	16
1876	2.03	1.83	1.71	16
1877	2.20	1.99	1.86	16
1878	.84	.76	.71	16
1879	1.04	.94	.87	16
1880	.60	.55	.50	29
1881	2.50	2.25	2.10	16
1882	2.50	2.25	2.10	16
1883	5.20	4.68	4.42	16
1884	4.52	4.05	3.82	16
1885	9.30	8.40	7.84	16
1886	2.55	2.34	2.18	16
1887	1.00	.95	.85	16

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
1888	1.30	1.15	1.10	16
1889	2.60	2.34	2.20	16
1890	.60	.55	.50	29
1891	6.00	5.40	5.10	16
1892	5.44	4.90	4.59	16
1893	10.25	9.23	8.61	16
1894	1.74	1.57	1.40	16
1895	2.92	2.63	2.46	16
1896	2.52	2.27	2.12	16
1897	5.05	4.55	4.29	16
1898	.25	.23	.21	29
1899	2.25	2.02	1.91	16
1900	.25	.23	.21	29
1902	4.18	3.77	3.52	16
1903	3.62	3.26	3.06	16
1904	7.20	6.55	6.12	16
1905	.60	.54	.51	16
1905EP	.90	.81	.76	16
1906	.90	.81	.76	16
1906EP	1.50	1.35	1.27	16
1907	.68	.61	.55	16
1907EP	.99	.91	.80	16
1908	.72	.65	.59	16
1908EP	1.24	1.12	1.04	16
1909	.44	.41	.34	16
1910	1.16	1.04	.97	16
1911	.84	.76	.68	16
1912	1.35	1.21	1.14	16
1913	2.67	2.40	2.25	16
1914	1.50	1.35	1.27	16
1915	1.89	1.70	1.57	16
1916	3.80	3.40	3.20	16
1917	2.70	2.43	2.29	16
1918	5.40	4.85	4.40	16
1919	.72	.65	.59	16
1920	.88	.80	.72	16
1921	1.25	1.12	1.06	16
1922	1.50	1.35	1.27	16
1923	1.05	.95	.89	16
1924	1.26	1.13	1.06	16
1925	1.85	1.66	1.57	16
1926	2.25	2.02	1.91	16
1927	3.73	3.36	3.14	16
1928	4.25	3.83	3.61	16
1929	2.00	1.80	1.70	16
1930	2.45	2.21	2.08	16
1931	2.50	2.25	2.10	16
1932	2.60	2.34	2.18	16
1933	5.05	4.55	4.29	16
1934	6.10	5.59	5.18	16
1935	4.50	4.05	3.82	16
1936	5.03	4.77	4.50	16
1937	9.30	8.40	7.84	16
1938	10.25	9.23	8.61	16
1939	2.76	2.49	2.33	17
1939EP	4.30	3.87	3.65	17
1941	1.35	1.21	1.14	17
1941EP	1.92	1.73	1.61	17
1942	1.98	1.78	1.65	17
1942EP	3.80	3.42	3.23	17
1943	1.65	1.49	1.40	17
1943EP	2.75	2.48	2.33	17
1944	2.70	2.45	2.25	18
1945	1.85	1.65	1.55	18
1946	1.50	1.35	1.25	18

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
1947	3.20	2.90	2.70	18
1948	2.10	1.90	1.75	18
1949	1.40	1.25	1.15	18
1950	1.15	1.05	.95	18
1951	2.35	2.10	1.95	18
1952	2.20	2.00	1.85	18
1953	1.35	1.25	1.15	18
1954	1.05	.95	.90	18
1955	2.65	2.35	2.20	18
1956	2.75	2.48	2.31	18
1957	1.69	1.52	1.42	18
1958	1.49	1.39	1.25	18
1959	3.09	2.78	2.60	18
1960	5.55	5.00	4.65	18
1961	2.90	2.60	2.40	18
1962	2.10	1.90	1.75	18
1963	4.80	4.30	4.00	18
1964	2.92	2.63	2.45	18
1965	2.07	1.86	1.74	18
1966	5.43	4.89	4.56	18
1970	.20	.18	.17	26
1971	.18	.17	.16	26
1972	.27	.24	.23	26
1973	.45	.42	.40	26
1974	.60	.55	.50	26
1975	1.95	1.85	1.75	26
1976	1.45	1.40	1.35	26
1978	.35	.34	.31	26
1979	.27	.24	.23	26
1980	.52	.47	.43	26
1981	.95	.85	.80	26
1982	1.25	1.20	1.10	26
1983	4.00	3.90	3.75	26
1984	2.95	2.85	2.75	26
1985	.24	.23	.22	26
1986	.24	.23	.22	26
1987	.30	.29	.25	26
1988	.55	.54	.44	26
1989	.70	.63	.59	26
1990	2.52	2.27	2.12	26
1991	1.90	1.71	1.60	26
1992	.30	.29	.25	26
1993	.27	.24	.23	26
1994	.40	.36	.34	26
1995	.77	.69	.65	26
1996	.98	.88	.82	26
1997	3.63	3.27	3.05	26
1998	2.70	2.43	2.27	26
1999	.45	.40	.38	26
2006	.15	.12	.09	26
2007	.40	.36	.34	26
2008	.69	.62	.58	26
2009	1.34	1.21	1.13	26
2010	1.71	1.54	1.44	26
2011	6.65	5.98	5.59	26
2012	4.65	4.18	3.91	26
2013	.54	.49	.45	26
2014	.45	.42	.40	26
2015	.77	.69	.65	26
2016	1.52	1.37	1.28	26
2017	1.95	1.75	1.31	26
2018	7.75	6.96	6.51	26
2019	5.40	4.86	4.54	26
2020	.18	.16	.15	26
2021	.20	.19	.18	26
2022	.26	.24	.22	26
2023	.28	.25	.24	26
2024	.30	.28	.26	26
2025	.27	.24	.23	26
2026	.45	.42	.40	26

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
2027	.57	.52	.48	26
2028	.62	.57	.53	26
2029	.70	.65	.61	26
2030	.90	.80	.75	26
2031	.52	.47	.43	26
2032	.98	.88	.83	26
2033	1.18	1.13	1.03	26
2034	1.30	1.25	1.15	26
2035	1.50	1.45	1.40	26
2036	2.07	1.86	1.74	26
2037	.38	.36	.34	26
2038	.54	.52	.50	26
2039	.69	.66	.63	26
2042	.33	.30	.27	26
2043	.42	.38	.33	26
2044	.50	.45	.39	26
2045	.55	.49	.42	26
2046	.58	.51	.44	26
2047	.84	.72	.63	26
2048	1.00	.95	.85	26
2051PK	1.35	...	...	N. L.
2052PK	.85	...	...	N. L.
2053PK	.85	...	...	N. L.
2054PK	.75	...	...	N. L.
2055PK	.50	...	...	N. L.
2056PK	.50	...	...	N. L.
2079PK	.43	...	...	N. L.
2080PK	.43	...	...	N. L.
2081PK	1.00	...	...	N. L.
2082PK	.75	...	...	N. L.
2083PK	.66	...	...	N. L.
2084PK	.66	...	...	N. L.
2085PK	1.65	...	...	N. L.
2086PK	1.16	...	...	N. L.
2101	.35	.34	.31	6
2103	.35	.34	.31	6
2104	.35	.34	.31	6
2109	.35	.34	.31	6
2110	.35	.34	.31	6
2113	.35	.34	.31	6
2114	.35	.34	.31	6
2116	.35	.34	.31	6
2119	.35	.34	.31	6
2120	.45	.41	.36	6
2121	.45	.41	.36	6
2125	.35	.34	.31	6
2132	.35	.34	.31	6
2133	.45	.41	.36	6
2134	.35	.34	.31	6
2135	.40	.37	.34	6
2139	.30	.26	.24	2
2140	.45	.43	.36	2
2142	.30	.26	.24	6
2144	.30	.26	.24	6
2145	.35	.34	.31	6
2162	.65	.62	.55	2
2171	.70	.65	.55	2
2173	.35	.33	.29	2
2174	.60	.59	.54	2
2175	.35	.33	.29	2
2176	.60	.59	.53	2
2179	.35	.34	.31	2
2182	.80	.75	.65	2
2185	.50	.49	.44	2
2186	.50	.49	.44	2
2187	.80	.75	.70	2
2188	1.05	.95	.85	2
2189	.40	.38	.34	2
2190	.85	.80	.75	2
2191	.45	.40	.38	2

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Cat. #	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
2192	1.05	.95	.85	...	2
2194	.55	.51	.47	...	2
2195	.55	.51	.47	...	2
2198	.60	.57	.53	...	2
2199	.60	.56	.51	...	2
2304	.14	.12	.11	...	26
2305	.20	.17	.15	...	26
2306	.24	.21	.19	...	26
2307	.24	.21	.19	...	26
2308	.22	.19	.17	...	26
2309	.30	.27	.23	...	26
2310	.52	.47	.40	...	26
2311	.67	.57	.50	...	26
2312	2.42	2.05	1.82	...	26
2313	1.75	1.49	1.31	...	26
2314	.30	.27	.23	...	26
2315	.54	.48	.41	...	26
2316	.62	.53	.47	...	26
2317	.70	.60	.53	...	26
2318	.84	.72	.63	...	26
2319	.95	.81	.71	...	26
2375	.85	.73	...	...	N. L.
2377	.85	.73	...	...	N. L.
3014	.20	.15	13.20C	...	29
3015	.20	.17	15.00C	...	29
3016	.20	.17	15.00C	...	29
3018	.20	.17	15.00C	...	29
3019	.15	.12	10.20C	...	29
3020	.15	.12	9.60C	...	29
3021	.15	.12	10.20C	...	29
3022	.15	.12	9.00C	...	29
3302	.40	.38	...	...	31
3303	.42	.40	...	...	31
3304	.50	.45	...	...	31
3305	.47	.42	...	...	31
3306	.48	.46	...	...	31
3307	.72	.70	...	...	31
3308	.50	.45	...	...	31
3309	.62	.57	...	...	31
3310	.79	.75	...	...	31
3311	.60	.55	...	...	31
3312	.85	.80	...	...	31
3313	1.10	1.05	...	...	31
3314	.65	.60	...	...	31
3315	.90	.85	...	...	31
3316	1.05	1.00	...	...	31
3317	.70	.65	...	...	31
3318	.95	.90	...	...	31
3319	1.20	1.15	...	...	31
3320	.92	.87	...	...	31
3321	.45	.40	...	...	31
3322	.60	.55	...	...	31
3323	.48	.43	...	...	31
3325	.35	.30	.27	...	31
3326	.50	.45	.37	...	31
3327	.60	.55	...	...	31
3328	2.50	2.25	...	...	N. L.
3329	2.10	2.00	...	...	N. L.
3330	.45	.42	...	...	31
3331	.45	.42	...	...	31
3332	.83	.78	...	...	31
3334	.45	.42	...	...	31
3335	.45	.42	...	...	31
3336	.45	.42	...	...	31
3337	.60	.55	...	...	31
3338	.60	.55	...	...	31
3343	.35	.30	...	...	N. L.
4000	...	...	2.00/C	12.00	9
4001	...	...	2.25/C	12.50	9
4002	...	...	2.50 C	13.50	9

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

Cat. #	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
4003	...	...	2.75/C	15.00	9
4004	...	...	1.00/C	5.40	9
4005	...	...	1.50/C	9.00	9
4006	...	...	1.50/C	8.00	9
4007	...	...	1.50/C	8.50	9
4008	...	...	1.75/C	10.00	9
4009	...	...	1.75/C	10.50	9
4010	...	...	1.75/C	11.00	9
4011	...	...	1.75/C	11.25	9
4012	...	...	1.75/C	11.50	9
4013	...	...	1.75/C	11.80	9
4014	...	...	1.90/C	12.00	9
4015	...	...	1.90/C	12.20	9
4016	...	...	1.90/C	13.00	9
4017	...	...	2.25/C	15.00	9
4018	...	...	2.25/C	15.50	9
4019	...	...	2.25/C	16.00	9
4020	...	...	2.40/C	17.00	9
4021	...	...	.95	6.00	8
4022	...	...	1.25	7.00	8
4023	.06	.05	.04	...	9
4024	.07	.06	.05	...	9
4025	.08	.07	.06	...	9
4026	.07	.06	.05	...	9
4027	.08	.07	.06	...	9
4028	.09	.08	.07	...	9
4029	.08	.07	.06	...	9
4030	.09	.08	.07	...	9
4031	.10	.09	.08	...	9
4041	.13	.12	.11	...	14
4042	.21	.20	.19	...	14
4043	.27	.25	.21	...	14
4044	.36	.32	.30	...	14
4045	.43	.39	.34	...	14
4046	.24	.22	.21	...	14
4047	.42	.36	.33	...	14
4048	.49	.45	.42	...	14
4049	.57	.54	.51	...	14
4050	.65	.62	.60	...	14
4051	.25	.23	.22	...	14
4052	.42	.36	.33	...	14
4053	.49	.45	.42	...	14
4054	.58	.55	.52	...	14
4055	.66	.63	.61	...	14
4056	.13	.12	.11	...	14
4057	.21	.20	.19	...	14
4058	.25	.23	.22	...	14
4059	.35	.31	.29	...	14
4060	.42	.36	.33	...	14
4061	.27	.25	.24	...	14
4062	.43	.39	.31	...	14
4063	.50	.46	.43	...	14
4064	.61	.58	.54	...	14
4065	.68	.65	.63	...	14
4066	.27	.25	.24	...	14
4067	.43	.39	.34	...	14
4068	.51	.47	.44	...	14
4069	.62	.59	.55	...	14
4070	.75	.68	.65	...	14
4071	.13	.12	.11	...	14
4072	.21	.20	.19	...	14
4073	.27	.25	.24	...	14
4074	.35	.31	.29	...	14
4075	.43	.39	.34	...	14
4076	.25	.23	.22	...	14
4077	.43	.39	.34	...	14
4078	.50	.46	.43	...	14
4079	.61	.58	.54	...	14
4080	.68	.65	.63	...	14
4081	.27	.25	.24	...	14

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
4082	.43	.39	.34	14
4083	.51	.47	.44	14
4084	.62	.59	.55	14
4085	.75	.68	.65	14
4101	.18	.17	.16	14
4102	.28	.26	.25	14
4103	.37	.33	.31	14
4104	.48	.44	.41	14
4105	.55	.53	.47	14
4106	.34	.30	.28	14
4107	.53	.50	.45	14
4108	.67	.64	.62	14
4109	.85	.76	.73	14
4110	1.06	.99	.85	14
4111	.36	.32	.30	14
4112	.54	.52	.46	14
4113	.68	.65	.63	14
4114	.90	.82	.75	14
4115	1.08	1.01	.88	14
4116	.18	.17	.16	14
4117	.33	.29	.27	14
4118	.44	.40	.35	14
4119	.50	.46	.43	14
4120	.60	.57	.53	14
4121	.35	.31	.29	14
4122	.55	.53	.47	14
4123	.75	.68	.65	14
4124	.94	.86	.79	14
4125	1.17	1.07	.92	14
4126	.37	.33	.31	14
4127	.57	.54	.51	14
4128	.76	.69	.66	14
4129	.95	.87	.80	14
4130	1.18	1.08	.93	14
4131	.18	.17	.16	14
4132	.33	.29	.27	14
4133	.44	.40	.35	14
4134	.50	.46	.43	14
4135	.60	.57	.53	14
4136	.35	.31	.29	14
4137	.55	.53	.47	14
4138	.75	.68	.65	14
4139	.94	.86	.79	14
4140	1.17	1.07	.92	14
4141	.37	.33	.31	14
4142	.57	.54	.51	14
4143	.76	.69	.66	14
4144	.95	.87	.80	14
4145	1.18	1.08	.93	14
4147	.27	.25	.24	15
4148	.35	.31	.29	15
4149	.46	.42	.37	15
4150	.54	.52	.46	15
4151	.62	.59	.55	15
4152	.69	.66	.64	15
4153	.81	.74	.71	15
4154	.92	.84	.77	15
4155	.99	.91	.84	15
4156	1.15	1.05	.90	15
4157	.19	.18	.17	15
4158	.27	.25	.24	15
4159	.42	.36	.33	15
4160	.44	.40	.35	15
4161	.55	.53	.47	15
4162	.63	.60	.56	15
4163	.69	.66	.64	15
4164	.79	.72	.69	15
4165	.90	.82	.75	15
4166	.96	.88	.81	15
4167	.16	.15	.14	15

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Cat. #	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
4168	.23	.21	.20	15
4169	.28	.26	.25	15
4170	.36	.32	.30	15
4171	.43	.39	.34	15
4172	.47	.43	.40	15
4173	.51	.47	.44	15
4174	.57	.54	.51	15
4175	.62	.59	.55	15
4176	.66	.63	.61	15
4177	.18	.17	.16	15
4178	.24	.22	.21	15
4179	.33	.29	.27	15
4180	.37	.33	.31	15
4181	.46	.42	.37	15
4182	.49	.45	.42	15
4183	.55	.53	.47	15
4184	.61	.58	.54	15
4185	.65	.62	.60	15
4186	.75	.68	.65	15
4225	.65	.62	.60	20
4226	1.09	.98	.92	20
4227	1.55	1.40	1.30	20
4228	4.80	4.30	4.02	20
4229	.85	.75	.70	20
4230	.90	.80	.75	20
4231	1.15	1.05	.98	20
4232	4.90	4.40	4.10	20
4234	1.25	1.15	1.05	20
4235	1.75	1.55	1.40	20
4236	3.15	2.80	2.60	20
4237	6.60	5.95	5.40	20
4238	1.35	1.25	1.15	20
4239	1.85	1.65	1.50	20
4240	3.20	3.00	2.80	20
4241	6.70	6.05	5.45	20
4242	.80	.70	.65	20
4243	.90	.81	.76	20
4244	1.38	1.22	1.16	20
4245	4.39	3.95	3.60	20
4246	.85	.75	.70	20
4247	.90	.80	.75	20
4248	1.15	1.05	.98	20
4249	4.90	4.40	4.10	20
4250	1.25	1.15	1.05	20
4251	1.75	1.55	1.40	20
4252	3.15	2.80	2.60	20
4253	6.50	5.75	5.10	20
4254	1.35	1.25	1.15	20
4255	1.85	1.65	1.50	20
4256	3.35	3.00	2.80	20
4257	6.70	6.05	5.45	20
4258	.80	.70	.65	20
4259	.90	.81	.76	20
4260	1.38	1.22	1.16	20
4261	4.39	3.95	3.60	20
4262	.85	.75	.70	20
4263	.90	.80	.75	20
4264	1.15	1.05	.98	20
4265	4.90	4.40	4.10	20
4266	1.42	1.28	1.17	20
4267	1.92	1.73	1.56	20
4268	3.60	3.24	2.91	20
4269	6.50	5.75	5.10	20
4270	1.35	1.25	1.15	20
4271	1.85	1.65	1.50	20
4272	3.32	3.00	2.80	20
4273	6.70	6.05	5.45	20
4283	.46	.41	.36	20
4284	1.00	.85	.75	20
4285	2.09	1.77	1.56	20

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Cat. #	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
4286	3.70	3.15	2.75	20
4287	3.59	3.05	2.69	20
4288	6.00	5.10	4.50	20
4289	.45	.39	.34	22
4290	.45	.39	.34	22
4291	.46	.41	.36	22
4292	.48	.43	.38	22
4293	.30	.27	.23	22
4294	.45	.41	.37	22
4295	.33	.30	.27	22
4296	.35	.31	.28	22
4297	.29	.26	.22	22
4298	.29	.26	.22	22
4299	.42	.38	.33	22
4300	.50	.45	.39	22
4301	.50	.45	.39	22
4303	.56	.50	.43	22
4304	.72	.62	.55	22
4305	.27	.24	.22	22
4307	.40	.34	.32	22
4308	.46	.40	.37	22
4309	.46	.40	.37	22
4311	.53	.48	.42	22
4312	.61	.54	.47	22
4313	.42	.38	.33	22
4314	.43	.37	.34	22
4315	.45	.39	.35	22
4316	.46	.41	.36	22
4317	.48	.43	.38	22
4318	.50	.45	.39	22
4319	.58	.51	.44	22
4320	.64	.54	.48	22
4321	.89	.76	.67	22
4322	.97	.83	.73	22
4323	.36	.33	.30	24
4324	.47	.42	.38	24
4325	.64	.57	.51	24
4326	.11	.10	.09	24
4327	.14	.12	.11	24
4328	.16	.14	.13	24
4329	1.00	.85	.75	22
4330	.11	.10	.09	22
4331	.14	.12	.11	22
4332	.25	.23	.20	24
4333	.33	.30	.27	24
4334	.48	.43	.38	24
4335	.14	.12	.11	22
4350	.73	.66	.51	25
4351	.77	.69	.54	25
4352	1.05	.95	.74	25
4353	1.05	.95	.74	25
4354	1.05	.95	.74	25
4355	1.15	.98	.87	25
4356	1.15	.98	.87	25
4357	1.15	.98	.87	25
4358	.87	.75	.66	25
4359	.87	.75	.66	25
4360	.87	.75	.66	25
4361	.36	.33	.30	25
4362	.36	.33	.30	25
4363	.40	.34	.30	25
4364	.40	.34	.30	25
4365	.40	.34	.30	25
4366	.55	.49	.42	25
4367	.55	.49	.42	25
4368	.55	.49	.42	25
4369	.58	.51	.44	25
4370	.58	.51	.44	25
4371	.58	.51	.44	25
4372	.94	.85	.77	25

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Cat. #	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
4373	.94	.85	.77	...	25
4374	.94	.85	.77	...	25
4375	1.35	1.13	1.01	...	25
4376	1.55	1.32	1.16	...	25
				...	25
4377	.67	.57	.50	...	25
4378	.67	.57	.50	...	25
4379	.67	.57	.50	...	25
4380	1.15	.98	.87	...	25
4381	1.30	1.10	.98	...	25
4401	.08	.07	.06	...	14
4402	.08	.07	.06	...	14
4403	.08	.07	.06	...	14
4404	.08	.07	.06	...	14
4405	.08	.07	.06	...	14
4406	.08	.07	.06	...	14
4407	.08	.07	.06	...	14
4408	.08	.07	.06	...	14
4409	.09	.08	.07	...	14
4410	.09	.08	.07	...	14
4411	.08	.07	.06	...	14
4412	.08	.07	.06	...	14
4413	.08	.07	.06	...	14
4414	.09	.08	.07	...	14
4415	.09	.08	.07	...	14
4416	.55	.49	.42	...	24
4417	.62	.53	.47	...	24
4418	.97	.83	.73	...	24
4419	1.57	1.34	1.18	...	24
4420	1.64	1.39	1.23	...	24
4421	.42	.38	.33	...	24
4422	.45	.39	.34	...	24
4423	.55	.49	.42	...	24
4424	.58	.51	.44	...	24
4425	.70	.60	.53	...	24
4426	.74	.63	.56	...	24
4427	.97	.83	.73	...	24
4428	1.09	.93	.82	...	24
4450	.15	.14	.13	...	25
4451	.15	.14	.13	...	25
4452	.16	.15	.14	...	25
4453	.18	.17	.16	...	25
4454	.18	.17	.16	...	25
4455	.18	.17	.16	...	25
4456	.18	.17	.16	...	25
4457	.18	.17	.16	...	25
4458	.39	.33	.30	...	25
4459	.42	.36	.33	...	25
4460	.45	.39	.35	...	25
4461	.27	.25	.21	...	25
4462	.30	.26	.23	...	25
4463	.42	.38	.33	...	25
4464	.75	.64	.57	...	25
4465	.46	.41	.36	...	25
4466	.50	.45	.39	...	25
4467	.54	.48	.41	...	25
4468	.58	.51	.44	...	25
4469	...	...	2.25C	16.00	14
4470	...	...	2.50C	17.50	14
4471	...	...	2.50C	17.50	14
4472	...	...	2.50C	17.50	14
4473	...	...	2.50C	17.50	14
4474	...	...	2.50C	17.50	14
4482	.33	.30	.27	...	24
4483	.33	.30	.27	...	24
4484	.33	.30	.27	...	24
4485	.33	.30	.27	...	24
4486	.24	.21	.19	...	24
4500	.25	.23	.20	...	15
4501	.42	.38	.33	...	15

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4502	.62	.53	.47	15
4503	.79	.67	.59	15
4504	.97	.83	.73	15
4505	.40	.34	.30	15
4506	.77	.66	.58	15
4507	1.15	.98	.87	15
4508	1.52	1.30	1.14	15
4509	1.79	1.49	1.31	15
4510	.42	.38	.33	15
4511	.80	.68	.60	15
4512	1.20	1.02	.90	15
4513	1.57	1.34	1.18	15
4514	1.97	1.68	1.48	15
4515	.16	.14	.13	22
4516	.20	.17	.15	22
12501	.77	.66	.58	N. L.
12502	1.52	1.30	1.14	N. L.
12503	1.64	1.39	1.23	N. L.
12504	1.75	1.49	1.31	N. L.
12505	1.87	1.59	1.41	N. L.
15021	1.25	1.06	.94	10
15022	2.25	2.10	1.95	10
15023	1.25	1.06	.94	10
15024	2.05	1.85	1.70	10
15025	1.25	1.06	.94	10
15026	2.10	1.90	1.75	10
15028	2.25	2.10	1.95	10
15029	2.05	1.85	1.70	10
15030	2.10	1.90	1.75	10
15031	.98	.86	.75	10
15032	1.95	1.85	1.75	10
15033	2.05	1.95	1.80	10
15034	2.20	1.98	1.85	10
15035	2.25	2.10	1.95	10
15036	1.95	1.85	1.75	10
15041	2.00	1.85	1.75	10
15042	3.80	3.60	3.50	10
15043	4.00	3.80	3.70	10
15044	4.15	3.95	3.80	10
15045	4.30	4.10	3.95	10
15046	3.90	3.60	3.50	10
15047	1.50	1.25	1.15	10
15048	2.00	1.90	1.70	10
15049	2.00	1.90	1.70	10
15053	1.25	1.06	.94	10
15054	2.25	2.10	1.95	10
15056	2.25	2.10	1.95	10
15057	1.50	1.25	1.15	10
15058	2.00	1.90	1.70	10
15059	2.00	1.90	1.70	10
15063	1.45	1.35	1.30	10
15064	2.65	2.50	2.40	10
15065	2.75	2.60	2.50	10
15067	1.50	1.25	1.15	10
15068	2.00	1.90	1.70	10
15069	2.00	1.90	1.70	10
15071	1.25	1.10	1.00	10
15072	2.05	1.90	1.80	10
15073	2.15	2.00	1.90	10
15074	2.25	2.10	2.00	10
15075	2.40	2.25	2.15	10
15076	2.05	1.90	1.80	10
15077	1.75	1.50	1.40	10
15078	2.10	1.90	1.80	10
15079	3.00	2.85	2.75	10
15087	1.85	1.65	1.50	10
15088	2.10	1.90	1.80	10
15089	2.10	1.90	1.80	10
15091	1.20	1.10	.95	10
15092	2.00	1.90	1.80	10

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
15093	2.10	2.00	1.90	10
15094	2.30	2.20	2.10	10
15095	2.40	2.30	2.20	10
15096	2.00	1.90	1.80	10
15097	1.50	1.25	1.15	10
15098	2.00	1.90	1.70	10
15099	2.00	1.90	1.70	10
15101	.35	.30	.27	11
15102	.65	.57	.54	11
15103	.90	.81	.76	11
15104	1.15	1.07	1.02	11
15105	1.40	1.30	1.25	11
15106	.50	.45	.42	11
15107	1.10	1.02	.97	11
15108	1.50	1.45	1.40	11
15109	1.75	1.65	1.60	11
15110	2.50	2.40	2.35	11
15111	.55	.48	.45	11
15112	1.15	1.08	1.03	11
15113	1.55	1.45	1.35	11
15114	1.85	1.74	1.68	11
15115	2.45	2.30	2.20	11
15116	.65	.57	.49	11
15117	1.25	1.15	1.05	11
15118	1.65	1.55	1.45	11
15119	1.85	1.78	1.70	11
15120	2.60	2.45	2.35	11
15121	.65	.58	.55	11
15122	1.25	1.10	1.00	11
15123	1.70	1.60	1.55	11
15124	2.00	1.90	1.85	11
15125	2.65	2.50	2.40	11
15126	.70	.60	.57	11
15127	1.30	1.20	1.15	11
15128	1.75	1.69	1.60	11
15129	2.25	2.10	2.00	11
15130	2.85	2.75	2.60	11
15221	1.30	1.15	1.05	10
15222	2.40	2.30	2.20	10
15223	1.30	1.15	1.05	10
15224	2.25	2.10	2.00	10
15225	1.30	1.15	1.05	10
15226	2.25	2.10	2.05	10
15228	2.30	2.15	2.10	10
15229	2.25	2.10	2.00	10
15230	2.25	2.10	2.05	10
15231	1.60	1.45	1.35	10
15232	2.65	2.50	2.40	10
15233	3.10	2.90	2.80	10
15234	3.30	3.15	3.00	10
15235	3.55	3.40	3.25	10
15236	2.65	2.50	2.40	10
15241	2.10	1.95	1.85	10
15242	4.25	4.00	3.80	10
15243	4.40	4.15	3.95	10
15244	4.50	4.25	4.10	10
15245	5.00	4.75	4.60	10
15246	4.25	4.00	3.80	10
15247	1.65	1.45	1.30	10
15248	2.30	2.10	1.90	10
15249	2.30	2.10	1.90	10
15253	1.40	1.25	1.15	10
15254	2.35	2.20	2.15	10
15256	2.35	2.20	2.15	10
15257	1.65	1.45	1.30	10

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
15258	2.30	2.10	1.90	10
15259	2.30	2.10	1.90	10
15263	1.60	1.45	1.35	10
15264	2.75	2.60	2.50	10
15265	2.75	2.60	2.50	10
15267	1.65	1.45	1.30	10
15268	2.30	2.10	1.90	10
15269	2.30	2.10	1.90	10
15271	1.75	1.50	1.40	10
15272	3.10	2.90	2.80	10
15273	3.40	3.20	3.10	10
15274	3.70	3.55	3.40	10
15275	3.90	3.60	3.50	10
15276	3.20	3.05	2.90	10
15277	1.85	1.65	1.50	10
15278	2.30	2.10	1.90	10
15279	2.30	2.10	1.90	10
15287	1.85	1.65	1.50	10
15288	2.30	2.10	1.90	10
15289	2.30	2.10	1.90	10
15291	1.60	1.45	1.35	10
15292	2.65	2.50	2.40	10
15293	3.10	2.90	2.80	10
15294	3.35	3.20	3.05	10
15295	3.50	3.30	3.20	10
15296	2.85	2.75	2.60	10
15297	1.65	1.45	1.30	10
15298	2.30	2.10	1.90	10
15299	2.30	2.10	1.90	10
15301	.45	.35	.30	11
15302	.60	.55	.50	11
15303	.85	.80	.75	11
15304	1.30	1.20	1.10	11
15305	1.55	1.45	1.38	11
15306	.60	.55	.50	11
15307	1.35	1.25	1.20	11
15308	1.70	1.60	1.55	11
15309	2.35	2.20	2.10	11
15310	3.05	2.95	2.85	11
15311	.60	.55	.50	11
15312	1.30	1.20	1.10	11
15313	2.10	2.00	1.90	11
15314	2.70	2.55	2.45	11
15315	3.20	3.05	2.90	11
15316	.85	.75	.72	11
15317	1.60	1.45	1.35	11
15318	1.90	1.80	1.75	11
15319	2.90	2.80	2.65	11
15320	3.40	3.25	3.10	11
15321	.90	.81	.76	11
15322	1.60	1.40	1.30	11
15323	2.25	2.10	2.00	11
15324	3.00	2.90	1.85	11
15325	3.65	3.50	3.35	11
15326	1.15	.95	.85	11
15327	1.55	1.45	1.35	11
15328	2.40	2.25	2.15	11
15329	3.10	2.90	2.80	11
15330	3.90	3.75	3.60	11
15332	3.65	3.50	3.35	13

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Catalog Number	Sugg'd. Resale Prices 1-19 Each	20-90 Each	100-240 Each	Page #
15333	3.90	3.75	3.60	13
15342	4.40	4.25	4.10	13
15343	4.50	4.35	4.20	13
15401	.36	.32	.30	12
15402	.65	.57	.54	12
15403	.90	.81	.76	12
15404	1.14	1.07	1.02	12
15405	1.45	1.35	1.25	12
15406	.75	.65	.56	12
15407	1.15	1.00	.91	12
15408	1.70	1.55	1.45	12
15409	2.00	1.90	1.85	12
15410	2.60	2.45	2.35	12
15411	.55	.48	.45	12
15412	1.30	1.15	1.05	12
15413	1.70	1.55	1.45	12
15414	2.20	2.05	1.95	12
15415	2.70	2.55	2.45	12
15431	.35	.30	.27	11
15432	.50	.45	.40	11
15433	.90	.81	.76	11
15434	1.25	1.14	1.07	11
15435	1.60	1.45	1.35	11
15436	.45	.40	.35	11
15437	1.00	.90	.80	11
15438	1.60	1.45	1.35	11
15439	1.75	1.65	1.60	11
15440	2.40	2.30	2.20	11
15441	.65	.57	.50	11
15442	1.15	1.08	1.03	11
15443	1.55	1.45	1.40	11
15444	2.00	1.90	1.85	11
15445	2.70	2.55	2.45	11
15501	.45	.40	.35	12
15502	.70	.60	.57	12
15503	1.00	.90	.80	12
15504	1.30	1.20	1.12	12
15505	1.60	1.40	1.30	12
15506	.75	.65	.60	12
15507	1.20	1.13	1.08	12
15508	2.40	2.30	2.20	12
15509	2.60	2.50	2.40	12
15510	2.85	2.75	2.60	12
15511	.65	.60	.55	12
15512	1.20	1.13	1.08	12
15513	1.60	1.50	1.45	12
15514	2.40	2.30	2.20	12
15515	2.85	2.75	2.60	11
15531	.35	.30	.28	11
15532	.65	.57	.50	11
15533	.95	.90	.85	11
15534	1.25	1.18	1.10	11
15535	1.50	1.45	1.40	11
15536	.60	.55	.50	11
15537	1.10	1.05	1.00	11
15538	1.75	1.60	1.50	11
15539	2.30	2.15	2.00	11
15540	2.65	2.50	2.40	11
15541	.70	.65	.60	11
15542	1.25	1.15	1.05	11
15543	1.75	1.60	1.50	11
15544	2.40	2.30	2.20	11
15545	2.85	2.75	2.60	11

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